



WILLIAMS

"SUPERRENCHES"
"SUPERSOCKETS"

Williams' Midget "Supersockets" are accurately made with thin straight walls from Selected Alloy Steel, heat-treated and chrome-plated. Packed 6 Sockets in a box.



Nominal Opening	No.	Hex Cap Screw; Size Screw	U. S. Std. Nut; Size Bolt	S.A.E. Std. Nut; Size Bolt	Amer. Std. Mach. Screw Nut
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REGULAR — 6-POINT

3/16	NM-606	No. 2 & 3
7/32	NM-607
1/4	NM-608	4
9/32	NM-609

REGULAR — 12-POINT

5/16	NM-1210	1/8	1/8	.....	5 & 6
11/32	NM-1211	.....	.....	.....	8
3/8	NM-1212	3/16	.....	.....	10
7/16	NM-1214	1/4	.....	1/4	12 & 1/4
1/2	NM-1216	5/16	1/4	5/16	.....



REGULAR — 4-POINT

3/16	NM-406	.....	.....	.....	2 & 3
7/32	NM-407	.....	.....	.....	.....
1/4	NM-408	.....	.....	.....	4

REGULAR — 8-POINT

5/16	NM-810	.....	1/8	.....	5 & 6
3/8	NM-812	.....	.....	.....	10



EXTRA DEEP — 6-POINT

1/4	NMD-608	.....	.....	.....	4
9/32	NMD-609	.....	.....	.....	.....

EXTRA DEEP — 12-POINT

5/16	NMD-1210	1/8	1/8	.....	5 & 6
11/32	NMD-1211	.....	.....	.....	8
3/8	NMD-1212	3/16	.....	.....	10
7/16	NMD-1214	1/4	.....	1/4	12 & 1/4

MIDGET PATTERN HANDLES & PARTS

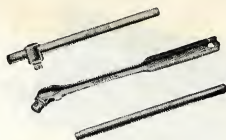
WILLIAMS

1/4" SQUARE DRIVE

NM-20A—Sliding T Handle—4-1/2" long.

NM-42—Flex Handle only—5-3/4" long; flexible head, knurled grip, crosshole is for sliding Bar.

NM-42B—Sliding Bar, 1/4 x 4-1/2", for NM-42.

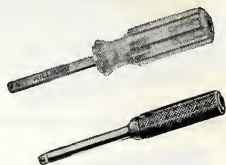


NM-51—Reversible Ratchet—4-1/2" long. 24 teeth in ratchet-gear instead of usual 14 to 20. Turning shift-lever reverses the action instantly.



NM-106—Extension-Driver, has plastic grip with 1/4" square drive-opening in end—6" long.

NM-110 — Extension-Driver, has lockable, revolving, knurled handle with 1/4" square drive-opening in end. May be used as an Extension or as a Driver with handle locked. A slight turn of the handle locks and unlocks same instantly, 5-3/8" long.



NM-102 — Extension Bar — 2" long.

NM-115 — Extension Bar — 6" long.

NM-116 — Extension Bar — 14" long.



MB-130 — Adapter — 1/4" square female and 3/8" square male. Adapts Sockets with 3/8" square drive-openings to Handles with 1/4" square drive-plug.

MB-131 — Adapter — 1/4" square male and 3/8" square female. Adapts Sockets with 1/4" square drive-openings to Handles with 3/8" square drive-plug.

NM-150 — Plug Adapter — 3/4" long; both ends 1/4" square male.

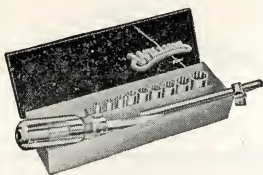


NM-126 — Screw Driver Adapter — 6" long.

NMP-1 — Phillips Screw Driver Adapter — No. 1 Phillips Drive to fit screws No. 4 and smaller.

NMP-2 — Phillips Screw Driver Adapter — No. 2 Phillips Drive fits screws Nos. 5 to 9 inclusive.





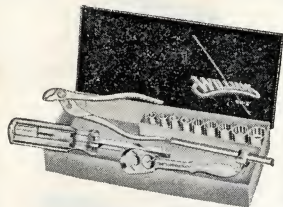
SET No. NM-1—in Metal Case

Total Weight, 1-1/8 lbs.

Case Only—1-1/8 x 2-1/8 x 7"

Weight, 5/8 lb.

Contains 9 Midget "Supersockets"—4 hex openings, 3/16 to 9/32"; 5 12-point openings, 5/16 to 1/2"; Sliding T Handle and Extension Driver with plastic grip.



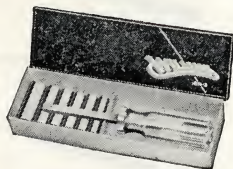
SET No. NM-2—in Metal Case

Total Weight, 1-5/8 lbs.

Case Only—1-1/8 x 3-1/4 x 7-1/2"

Weight, 7/8 lb.

Contains 9 Midget "Supersockets"—4 hex openings, 3/16 to 9/32"; 5 12-point openings, 5/16 to 1/2"; Reversible Ratchet; Sliding T Handle; Extension Driver with plastic grip and Midget "Superplier".



SET No. NM-3—in Metal Case

Total Weight, 1-1/8 lbs.

Case Only—1-1/8 x 2-1/8 x 7"

Weight, 5/8 lb.

Contains 6 Extra Deep Midget "Supersockets"—2 hex openings, 1/4 & 9/32"; 4 12-point openings 5/16 to 7/16" and Extension Driver with plastic grip.



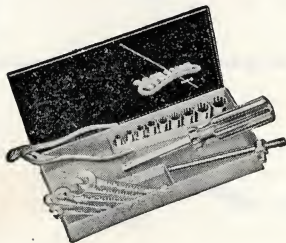
SET No. NM-4—in Metal Case

Total Weight, 1 lb.

Case Only—1-1/8 x 2-1/8 x 7"

Weight, 5/8 lb.

Contains 6 Extra Deep Midget "Supersockets"—2 hex openings, 1/4 & 9/32"; 4 12-point openings 5/16 to 7/16" and Reversible Ratchet.



SET No. NM-5—in Metal Case

Total Weight, 1-5/8 lbs.

Case Only—1-1/8 x 3-1/4 x 7-1/2"

Weight, 7/8 lb.

Contains 9 Midget "Supersockets"—4 hex openings, 3/16 to 9/32"; 5 12-point openings, 5/16 to 1/2"; Sliding T Handle; Extension Driver with plastic grip; Midget "Superplier" and 5 Midget "Superrenches" with openings, 13/64 to 3/8".

"SUPERSOCKET" WRENCH SETS

WILLIAMS

MIDGET PATTERN, 1/4" SQUARE DRIVE

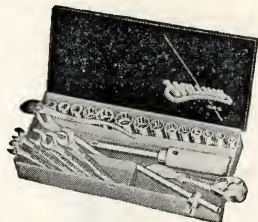
SET No. NM-6—in Metal Case

Total Weight, 1-1/8 lbs.

Case Only—1-1/8 x 3-1/4 x 7-1/2"

Weight, 1 lb.

Contains 14 Midget "Supersockets"—4 hex openings, 3/16 to 9/32"; 5 12-point openings, 5/16 to 1/2"; 3 square openings 3/16 to 1/4"; 2 8-point openings 5/16, 3/8"; Sliding T Handle; Reversible Ratchet; Extension Driver with lockable revolving grip; Midget "Superplier" and 5 Midget "Superrenches" with openings 13/64 to 3/8".



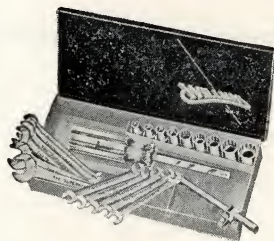
SET No. NM-7—in Metal Case

Total Weight, 1-3/4 lbs.

Case Only—1-1/8 x 3-1/4 x 7-1/2"

Weight, 7/8 lb.

Contains 9 Midget "Supersockets"—4 hex openings, 3/16 to 9/32"; 5 12-point openings, 5/16 to 1/2"; Sliding T Handle; Extension Driver with plastic grip and 11 Midget "Superrenches" with 15-75° angle openings, 3/16 to 1/2".



SET No. NM-8—in Metal Case

Total Weight, 4 lbs.

Case Only—1-3/8 x 5-7/8 x 8"

Weight, 1-5/8 lbs.

Contains 14 Midget "Supersockets"—4 hex openings, 3/16 to 9/16"; 5 12-point openings, 5/16 to 1/2"; 3 square openings, 3/16 to 1/4"; 2 8-point openings, 5/16, 3/8"; 6 Midget Extra Deep "Supersockets"—2 hex openings, 1/4, 9/32"; 4 12-point openings, 5/16 to 7/16".

25 Attachments, Wrenches, etc.—Sliding T Handle; Flex Handle and Bar; Reversible Ratchet; Extension Driver with plastic grip; Extension Driver with lockable revolving grip; 1 Regular and 2 Phillips Screw Driver Attachments; Midget "Superplier"; 4 Midget Box "Superrenches" with openings 13/64 to 5/16" and 11 Midget "Superrenches" with 15-75° angle openings, 3/16 to 1/2".



BANTAM PATTERN "SUPERSOCKETS"

3/8" SQUARE DRIVE

Made from Selected Alloy Steel, heat-treated and chrome-plated. Packed 6 in a box.

REGULAR — 6-POINT and 12-POINT

Nominal Opening	No. 6-Point	No. 12-Point	Hex Cap Screw; Size Screw	U.S. Std. Nut; Size Bolt	S.A.E. Std. Nut; Size Bolt	Amer. Std. Mach. Screw Nut
1/4	B-608	.....	.....	.....	.....	†4
5/16	B-610	B-1210	1/8	1/8	.....	†5 & 6
11/32	B-611	B-1211	.....	.....	.....	†8
3/8	B-612	B-1212	3/16	.....	.....	†10
7/16	B-614	B-1214	1/4	.....	1/4	†12 & 1/4
1/2	B-616	B-1216	5/16	1/4	5/16	.....
17/32	.....	B-1217	.....	.....	.....	.....
9/16	B-618	B-1218	3/8	.....	3/8	5/16
19/32	.....	B-1219	.....	5/16	.....	.....
5/8	B-620	B-1220	7/16	.....	7/16	3/8
11/16	B-622	B-1222	.....	3/8	.....	.....
3/4	B-624	B-1224	1/2	.....	1/2	7/16
13/16	.....	B-1226	9/16	.....	.....	1/2
7/8	.....	B-1228	5/8	1/2	9/16	9/16

UNIVERSAL — 12-POINT — APPROXIMATE RANGE 130°

Nominal Opening	No.	Hex Cap Screw Size Screw	U. S. Std. Nut; Size Bolt	S.A.E. Std. Nut; Size Bolt	Amer. Std. Mach. Screw Nut
3/8	BU-1212	3/16	.....	.....	†10
7/16	BU-1214	1/4	.....	1/4	†12 & 1/4
1/2	BU-1216	5/16	1/4	5/16	.....
9/16	BU-1218	3/8	.....	3/8	5/16
5/8	BU-1220	7/16	.....	7/16	3/8
11/16	BU-1222	.....	3/8	.....	.....
3/4	BU-1224	1/2	.....	1/2	7/16

EXTRA DEEP — 12-POINT — 2 to 2-5/8" LONG Have Cross Hole for 9/32" Bar

3/8	BD-1212	3/16	.....	.....	.....
7/16	BD-1214	1/4	.....	1/4	†12 & 1/4
1/2	BD-1216	5/16	1/4	5/16	.....
9/16	BD-1218	3/8	.....	3/8	5/16
5/8	BD-1220	7/16	.....	7/16	3/8
11/16	BD-1222	.....	3/8	.....	.....
3/4	BD-1224	1/2	.....	1/2	7/16
13/16	BD-1226	9/16	.....	.....	1/2

CROWFOOT ATTACHMENTS

3/8	BC-1700	3/16	.....	.....	†10
7/16	BC-1701	1/4	.....	1/4	†12 & 1/4
1/2	BC-1001	5/16	1/4	5/16	.....
9/16	BC-1702	3/8	.....	3/8	5/16
5/8	BC-1703	7/16	.....	7/16	3/8
11/16	BC-1003	.....	3/8	.....	.....

EXTRA DEEP — 8-POINT — 1-1/2" LONG

Size Opening	No.	For Set Screw	U.S. Std. Sq. Nut	Sq. Cap Screw	Amer. Std. Reg. Sq. Nut
7/16	BD-814	7/16	.....	5/16	1/4
1/2	BD-816	1/2	1/4	3/8	.....
9/16	BD-818	9/16	.....	7/16	5/16
5/8	BD-820	5/8	.....	1/2	3/8

BANTAM PATTERN HANDLES AND PARTS

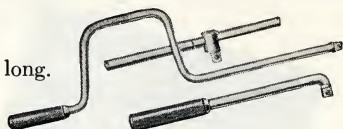
3/8" SQUARE DRIVE

WILLIAMS

B-15—Speeder—16-1/2" long with knurled revolving grip. Handle sweep—3-1/2" R.

B-20A—Sliding T Handle, Straight—6-1/2" long.

B-30—Offset Handle—7-3/4" long with non-revolving knurled grip. Shank offset at 90°.



B-40—Flex Handle—8-1/2" with flexible head and knurled grip with 3/8" square drive hole for use as an Extension; 3/8" cross-hole for Sliding Bar.

B-42B—Sliding Bar—5/16" rd. x 6" long, fits B-40.



B-50 — Ratchet — 6-1/2" long with B-150 Connector.

B-50A—Ratchet—same as B-50 without Plug-Connector. 1/4" sq. drive-opening, 1/4" sq. hole in handle end.

B-50B—Ratchet—same as B-50 but without Plug-Connector. Has 5/16" sq. drive opening in Ratchet head.



B-51—REVERSIBLE Ratchet—6-1/2" long. 24 teeth in Ratchet-gear instead of usual 14 or 16. The turning shift lever reverses the action instantly.

B-51A—REVERSIBLE Ratchet—same as B-51, but has both 3/8" sq. male and 1/4" sq. female ratchet drive in head, also 3/16 and 1/4" sq. drive holes in handle end.



B-108 — Extension Bar, Extra short — 3" long.

B-110 — Extension Bar, Short — 5-1/2" long.

B-115 — Extension Bar, Long — 10-1/2" long.

B-118 — Extension Bar, Extra long — 18" long.



BM-150 — Adapter — 3/8" sq. male and 1/4" sq. male.

BS-130 — Adapter — 3/8" sq. female and 1/2" sq. male.

BS-131 — Adapter — 3/8" sq. male and 1/2" sq. female.

B-140 — Universal Joint — approximate range 140°.

B-150 — Ratchet Plug Connector for B-50 Ratchet.



BP-2 — Phillips Screw Driver Socket Attachment — No. 2 Phillips Drive fits screws Nos. 5 to 9 inclusive.

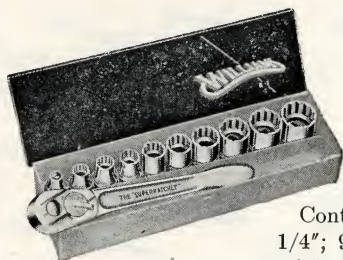
BP-3 — Phillips Screw Driver Socket Attachment — No. 3 Phillips Drive fits screws Nos. 10 to 16 inclusive.

BP-4 — Phillips Screw Driver Socket Attachment — No. 4 Phillips Drive fits screws Nos. 18 and larger.



BC-6 — Adjustable Crowfoot Attachment — Capacity, 3/4".





SET No. B-1

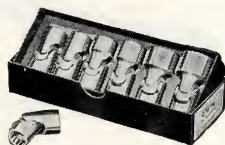
In Metal Case

Total Weight, 1-3/4 lbs.

Case Only—1-1/4 x 2-1/4 x 7-3/4"

Weight, 3/4 lb.

Contains 10 Bantam "Supersockets"—1 hex opening, 1/4"; 9 12-point openings, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4" and Reversible Ratchet.



SET No. B-2

In Cardboard Box

Weight, 3/4 lb.

Contains 7 Bantam Universal "Supersockets" with 12-point openings, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4".

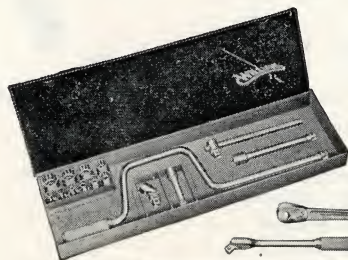


SET No. B-3

In Cardboard Box

Weight, 1/2 lb.

Contains 6 Bantam Crowfoot Attachments with openings, 3/8, 7/16, 1/2, 9/16, 5/8 and 11/16".



SET No. B-4

In Metal Case

Total Weight, 6-3/8 lbs.

Case Only—1-1/4 x 5-1/4 x 17-3/4"

Weight, 2-5/8 lbs.

Contains 10 Bantam "Supersockets"—1 hex opening, 1/4"; 9 12-point openings, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4". 8 Attachments—Speeder,

Sliding T Handle, Flex Handle, Reversible Ratchet, 3 Extension Bars and Universal Joint.

"SUPERSOCKET" WRENCH SETS

BANTAM PATTERN, 3/8" SQUARE DRIVE

WILLIAMS

SET No. B-5

In Metal Case

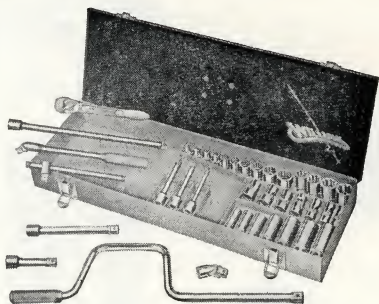
Total Weight, 11-3/8 lbs.

Case Only—2 x 6-1/2 x 19-1/4"

Weight, 5 lbs.

Contains 28 Bantam "Supersockets"—10 Regular, 1 6-point opening 1/4"; 9 12-point openings, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4"; 7 Universal with 12-point openings, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4"; 4 Extra Deep with 8-point openings, 7/16, 1/2, 9/16 and 5/8"; 7 Extra Deep with 12-point openings, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 and 13/16".

11 Attachments—Speeder, Sliding T Handle, Flex Handle, Reversible Ratchet, 3 Extension Bars, Universal Joint and 3 Phillips Screw Driver Attachments.



SET No. B-6

In Metal Case

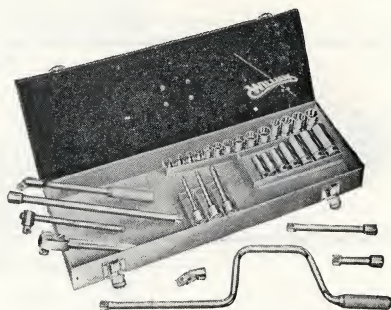
Total Weight, 10-1/2 lbs.

Case Only—2 x 6-1/2 x 19-1/4"

Weight, 4-7/8 lbs.

Contains 21 Bantam "Supersockets"—10 Regular, 1 6-point opening 1/4"; 9 12-point openings, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4"; 4 Extra Deep with 8-point openings, 7/16, 1/2, 9/16 and 5/8"; 7 Extra Deep with 12-point openings, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 and 13/16".

11 Attachments—Speeder, Sliding T Handle, Reversible Ratchet, 3 Extension Bars, Universal Joint and 3 Phillips Screw Driver Attachments.



SET No. B-7

In Cardboard Box

Weight, 3/4 lb.

Contains 10 Bantam "Supersockets" with 6-point openings, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4".



Made from Selected Alloy Steel, heat-treated and chrome-plated. Packed 6 in a box.

REGULAR 6-POINT and 12-POINT SOCKETS



Size Opening	No. 6-Point	No. 12-Point	U. S. Std. Hex Nut	Hex Head Cap Screw	S.A.E. Std. Hex Nut	Amer. Std. Regular Hex Nut
3/8	ST-612	ST-1212	.....	3/16	.....	.....
7/16	ST-614	ST-1214	.....	1/4	1/4	1/4
1/2	ST-616	ST-1216	1/4	5/16	5/16	.....
9/16	ST-618	ST-1218	.....	3/8	3/8	5/16
*9/16	SF-618	SF-1218	.....	.....	.....	.....
19/32	ST-619	ST-1219	5/16	.....	.....	.....
5/8	ST-620	ST-1220	.....	7/16	7/16	3/8
21/32	ST-621	ST-1221	.....	.....	.....	.....
11/16	ST-622	ST-1222	3/8	.....	.....	.....
3/4	ST-624	ST-1224	.....	1/2	1/2	7/16
25/32	ST-625	ST-1225	7/16	.....	.....	.....
13/16	ST-626	ST-1226	.....	9/16	.....	1/2
7/8	ST-628	ST-1228	1/2	5/8	9/16	9/16
15/16	ST-630	ST-1230	9/16	.....	5/8	.....
31/32	ST-632	ST-1231	.....	.....	.....	.....
1	ST-632	ST-1232	.....	3/4	.....	5/8
1-1/16	.....	ST-1234	5/8	.....	3/4	.....
1-1/8	.....	ST-1236	.....	7/8	.....	3/4
1-3/16	.....	ST-1238	.....	.....	.....	.....
1-1/4	.....	ST-1240	3/4	.....	7/8	.....

* All Ford 6, Ford-Mercury V-8, 85 HP, 90 HP and 100 HP Connecting Rods. Use with Torque wrench required on models having "Marsden" self-locking nuts. Not guaranteed because of extra thin walls.

UNIVERSAL 12-POINT SOCKETS



Size Opening	No.	U.S. Std. Hex Nut	Hex Head Cap Screw	S.A.E. Std. Hex Nut	Amer. Std. Regular Hex Nut
1/2	SU-1216	1/4	5/16	5/16	.....
9/16	SU-1218	.....	3/8	3/8	5/16
5/8	SU-1220	.....	7/16	7/16	3/8
11/16	SU-1222	3/8	.....	.....	.....
3/4	SU-1224	.....	1/2	1/2	7/16

REGULAR 8-POINT SOCKETS



Size Opening	No.	For Set Screw	U. S. Std. Sq. Nut	Sq. Cap Screw	Amer. Std. Reg. Sq. Nut
5/16	ST-810	5/16	.....	.....	.....
3/8	ST-812	3/8	.....	1/4	.....
7/16	ST-814	7/16	.....	5/16	1/4
1/2	ST-816	1/2	1/4	3/8	.....
9/16	ST-818	9/16	.....	7/16	5/16
†9/16	ST-0818	9/16	.....	7/16	5/16
5/8	ST-820	5/8	.....	1/2	3/8
11/16	ST-822	11/16	3/8	.....	.....
3/4	ST-824	3/4	.....	5/8	7/16
7/8	ST-828	7/8	1/2	3/4	9/16
1	ST-832	1	.....	.....	5/8

† For all Ford V-8 85 HP Main Bearing bolt heads.

DRAG-LINK SOCKET BITS



For Slotted stud on Drag-Link of steering-gear; also Tie-rod connecting steering-knuckles.

No.	Size Blade
SB-30	7/64 x 15/16
SB-40	3/32 x 1-1/4

STANDARD PATTERN "SUPERSOCKETS"

1/2" SQUARE DRIVE

WILLIAMS

Williams' Extra Deep Sockets are designed for Spark Plug and other service such as U bolts, Brake-Rod Ends, etc. Thin walls—Selected Alloy Steel, heat-treated and chrome-plated.

Size Opening	No.	U. S. Std. Nut; Size Bolt	Hex Hd. Cap Screw; Size Bolt	S.A.E. Std. Nut; Size Bolt	Amer. Std. Reglr. & Jam Nuts	Ex-treme Length
1/2	SD-1216	1/4	5/16	5/16		3-1/4
* 9/16	SD-1218	.....	3/8	3/8	5/16	3-1/4
* 5/8	SD-1220	.....	7/16	7/16	3/8	3-1/4
* 11/16	SD-1222	3/8	.....	.....	.....	3-1/4
3/4	SD-1224	.....	1/2	1/2	7/16	3-1/4
25/32	SD-1225	7/16	.....	.....	.....	3-1/4
* 13/16	SD-1226	.....	9/16	.....	1/2	3-1/4
7/8	SD-1228	1/2	5/8	9/16	9/16	3-1/4
* 17/8	SD-1228T	.....	.....	.....	.....	3-1/4
* 15/16	SD-1230	9/16	.....	5/8	.....	3-1/4
* 1	SD-1232	.....	3/4	11/16	5/8	3-1/4
1-1/16	SD-1234	5/8	.....	3/4	.....	3-1/4
* 1-1/8	SD-1236	.....	7/8	.....	3/4	3-1/4

*** Popular Spark Plug Sizes Servicing following Plugs:**

SD-1220—AC No. 104, and Champion No. Y-4A and No. Y-5, 10mm.

SD-1222—AC No. 103-S, Auto-Lite No. P-4, Champion No. Y-4, 10mm.

SD-1226—14 mm. Plugs.

SD-1228T—18 mm. Plugs.

SD-1230—many buses, trucks.

SD-1232—18mm. Plugs on many cars, buses, trucks.

SD-1236—many buses, trucks.

† Not guaranteed because of extra thin walls.

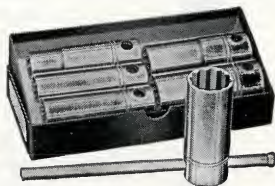


SET No. S-8

In Cardboard Box

Weight, 2-3/8 lbs.

Contains 6 Standard Extra Deep "Supersockets" with 12-point openings—9/16, 5/8, 11/16, 13/16, 7/8, 1" and Sliding Bar 7" long.

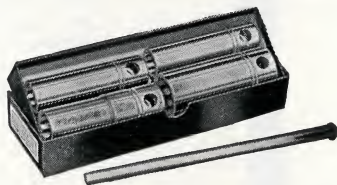


SET No. S-9

In Cardboard Box

Weight, 1-5/8 lbs.

Contains 4 Standard Extra Deep "Supersockets" with 12-point openings—5/8, 11/16, 13/16, 1" and Sliding Bar 7" long.



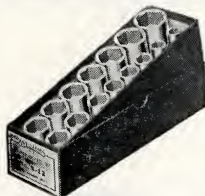
SET No. S-11

In Cardboard Box

Weight, 1-1/4 lbs.

Contains 5 Universal "Supersockets" with 12-point openings—1/2, 9/16, 5/8, 11/16 and 3/4".





SET No. S-12
In Cardboard Box

Weight, 2-3/4 lbs.

Contains 15 Standard "Supersockets" with 6-point openings — 3/8, 7/16, 1/2, 9/16, *9/16 Ford Special, 19/32, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16 and 1".

* For all Ford 6, Ford-Mercury V-8, 85 HP, 90 HP and 100 HP Connecting Rods. Not guaranteed because of extra thin walls.

No. S-57

TORQUE "MEASURRENCH"

PATENTED

REVERSIBLE RATCHET
WITH R. H. TORQUE INDICATING SIGNAL

Selected Alloy Steel

Standard Pattern — 1/2" Square Drive

Packed in Individual Metal Case

Closely limited torque application is essential in Automotive, Aviation and Diesel motors; also for many industrial appliances. Such fine adjustments make an efficient indicator of torque a vital necessity.

Williams' Ratchet "Measurrench", 19-1/2" long, is the most durable and efficient tool for torque indicating service on the market. It can be applied to ANY detachable Socket having 1/2" square drive-opening.

The wrench may be used in two ways:—

BY SIGHT READING—An easily read scale on the handle indicates applied tightening pressures 20 to 200 foot-pounds.

BY SOUND READING—A sharp sound signal is given for any desired torque from 35 to 200 foot-pounds, by setting the simple sound device.

Right-hand torque only is measured, but action of wrench reverses instantly for left-hand turning.



Williams' twin-double-tooth oscillating pawl provides constant engagement with TWO teeth of the 36-tooth ratchet-gear, in both ON and OFF turning. Consequently, the wrench operates readily when it swings only 12°—just one-thirtieth (1/30) of a full turn.

Operating instructions are supplied with each wrench along with a chart giving the foot-pounds tension to be applied on cylinder heads, connecting rods, main bearings, etc. This data covers all popular cars and trucks, as recommended by their manufacturers.



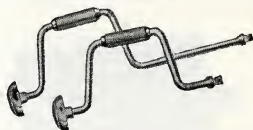
STANDARD PATTERN HANDLES AND PARTS

1/2" SQUARE DRIVE

WILLIAMS

S-10 — Speeder — 12" long, with knurled revolving grips. Handle sweep 5" R.

S-15 — Speeder — 17-1/2" long, with knurled revolving grips. Handle sweep 4" R.

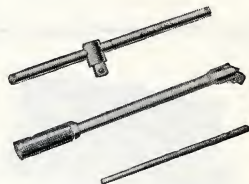


S-20A — Sliding T Handle — 11" long.

S-40 — Flex Handle — 12" long, flexible head. Knurled grip with 1/2" square drive hole in end for use as an Extension; 7/16" round cross hole for Bar.

S-41 — Flex Handle — 17-1/4" long; flexible head. Knurled grip with 1/2" square drive hole for use as an Extension; 7/16" round cross hole for Bar.

S-42B — Sliding Bar, 7/16" round x 9" for S-40 and S-41 Flex Handles.



S-50 — Ratchet Handle — 10" long, complete with Reversible Locked-in Plug-Connector.

S-50A — Ratchet Handle — 10" long, no Plug-Connector.

S-51 — Reversible Ratchet — 10-1/2" long. 24 teeth in Ratchet-gear instead of usual 16. Turning Shift-lever reverses the action instantly.

S-52 — Reversible Ratchet — 11-1/4" long. Concentric type mechanism of 82 tooth action permits rotation of nuts in close quarters.



S-55 — Ratchet Adapter — 1/2" square male and female connections. 2-9/16" long, 1-1/4" diameter. For Ratchet action with Speeders, Handles, etc. Turning Shift-lever reverses the action instantly.

S-60B — Stud Remover — 1/2" Square Drive. Stud capacity 1/4 to 3/4".



S-102P — Extension Bar — 2-1/2" long.

S-110P — Extension Bar — 5-1/2" long.

S-115P — Extension Bar — 10-1/2" long.

S-121P — Extension Bar — 20" long.

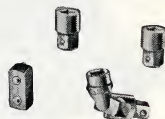


SH-130 — Adapter — 1/2" square female and 3/4" square male.

SH-131 — Adapter — 3/4" square female and 1/2" square male.

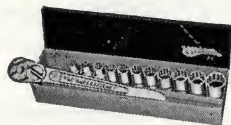
S-140 — Universal — approx. range 140°.

S-150A — Ratchet Plug-Connector for S-50 Ratchet.



SC-8 — Adjustable Crowfoot Attachment — Capacity, 15/16".





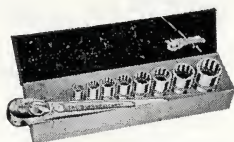
SET No. S-1—In Metal Case

Total Weight, 4-3/4 lbs.

Case Only—2-1/8 x 3 x 12-1/2"

Weight, 1-5/8 lbs.

Contains 11 Standard "Supersockets" with 12-point openings 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 7/8, 1" and Reversible Ratchet.



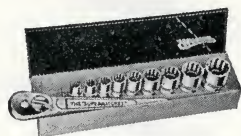
SET No. S-2—In Metal Case

Total Weight, 5-1/8 lbs.

Case Only—2-1/8 x 3 x 12-1/2"

Weight, 1-5/8 lbs.

Contains 8 Standard "Supersockets" with 12-point openings 1/2, 19/32, 11/16, 25/32, 7/8, 31/32, 1-1/16, 1-1/4" and Reversible Ratchet.



SET No. S-3—In Metal Case

Total Weight, 5-1/8 lbs.

Case Only—2-1/8 x 3 x 12-1/2"

2-1/8 x 3 x 12-1/2"—Weight, 1-5/8 lbs.

Contains 9 Standard "Supersockets" with 12-point openings 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 15/16, 1-1/16, 1-1/4" and Reversible Ratchet.



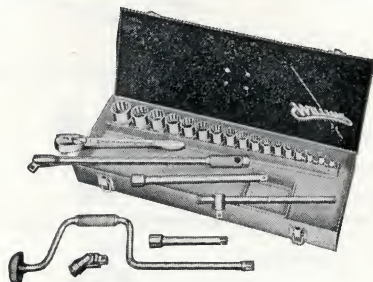
SET No. S-4—In Metal Case

Total Weight, 8-1/8 lbs.

Case Only—2-1/8 x 3-3/4 x 12"

Weight, 1-7/8 lbs.

Contains 19 Standard "Supersockets" with 12-point openings 3/8 to 1-1/4" and Reversible Ratchet.



SET No. S-5—In Metal Case

Total Weight, 18 lbs.

Case Only—2-1/4 x 7-1/2 x 20-3/4"

Weight, 6 lbs.

Contains 17 Standard "Supersockets" with 12-point openings 3/8 to 1-1/4".

7 Attachments—Speeder, Sliding T Handle, Flex Handle, Reversible Ratchet, 2 Extension Bars and Universal Joint.

'SUPERSOCKET' WRENCH SETS

WILLIAMS

STANDARD PATTERN, 1/2" SQUARE DRIVE

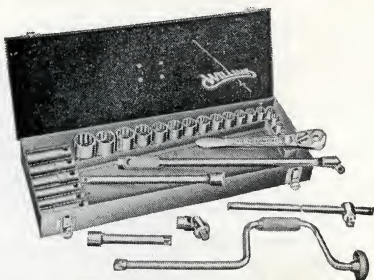
SET No. S-6—In Metal Case

Total Weight, 20-1/4 lbs.

Case Only—2-1/4 x 7-1/2 x 20-3/4"
Weight, 6 lbs.

Contains 23 Standard "Supersockets"—17 with 12-point openings 3/8 to 1-1/4"; 6 Extra Deep with 12-point openings 9/16 to 1".

7 Attachments—Speeder, Sliding T Handle, Flex Handle, Reversible Ratchet, 2 Extension Bars and Universal Joint.



SET No. S-7

In Metal Case

Total Weight, 27 lbs.

Case Only

5-3/8 x 7-1/2 x 23-1/4"

Weight, 8-5/8 lbs.

Contains 45 Standard "Supersockets"—19 Regular with 12-point openings 3/8 to 1-1/4"; *10 Regular with 8-point openings 5/16 to 1"; 5 Universal with 12-point openings 1/2 to 3/4"; 11 Extra Deep with 12-point openings 1/2 to 1-1/8".

9 Attachments—Speeder, Sliding T Handle, Flex Handle, Reversible Ratchet, 2 Extension Bars, Universal Joint and 2 Drag Link Socket Bits.

* Not included in Set No. S-7.

SET No. S-7A

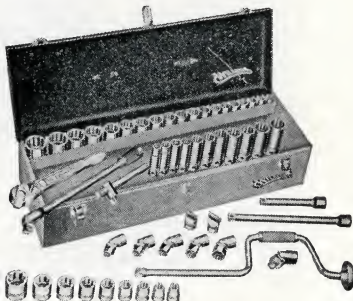
In Metal Case

Total Weight, 30 lbs.

Case Only

5-3/8 x 7-1/2 x 23-1/4"

Weight, 8-7/8 lbs.



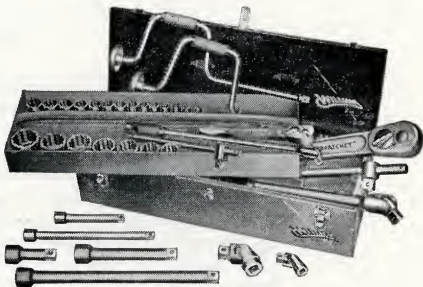
SET No. S-10—In Metal Case

Total Weight, 50 lbs.

Case Only—6-3/4 x 7-1/2 x 23-1/4"
Weight, 12-3/8 lbs.

Contains 14 Standard "Supersockets" with 12-point openings 3/8 to 1"; 7 Heavy Duty "Supersockets" with 12-point openings 1-1/16 to 1-5/8".

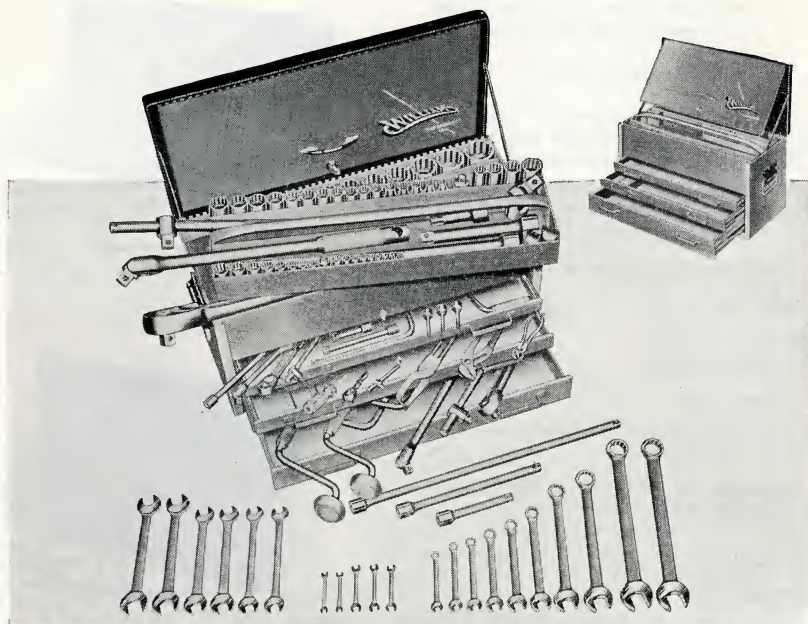
8 Standard Attachments—2 Speeders, Sliding T Handle, Flex Handle, Reversible Ratchet, 2 Extension Bars, Universal Joint; 7 Heavy Duty Attachments—Sliding T Handle, Flex Handle, Reversible Ratchet, 3 Extension Bars and Universal Joint.



WILLIAMS

"SUPERCHEST" 1001

1/4, 3/8, 1/2 and 3/4" SQUARE DRIVES



"SUPERCHEST" No. 1001

44 Sockets, 32 Attachments and 24 Wrenches, etc.

Total Weight, 90-1 1/2 lbs.

2 Color Steel Chest—10-1/4 x 12 x 23-1/2"

Weight, 36 lbs.

Williams' 1001 "Superchest" provides a scientifically matched assortment of wrenches in numerous patterns and detachable sockets with accessories in 1/4, 3/8, 1/2 and 3/4" drives that will meet every conceivable nut turning problem of the Machinist or Master Mechanic.

Chest is constructed of heavy gauge steel adequately reinforced and welded. Drawers with handy compartments operate on free acting suspension slides. Removable "tote" tray gives easy access to the roomy interior. Cylinder lock on hinged front panel locks entire chest.

Contents

WILLIAMS' "SUPERCHEST" No. 1001

"SUPERSOCKETS"

- 9 Midget Pattern:—4 6-point openings 3/16 to 9/32;
5 12-point openings 5/16 to 1/2".
- 8 Bantam Pattern:—7 Regular with 12-point openings 3/8
to 3/4"; 1 Extra Deep with 13/16" 12-point opening.
- 20 Standard Pattern:—16 Regular with 12-point openings
3/8 to 1"; 4 Extra Deep with 12-point openings 11/16 to 1".
- 7 Heavy Duty Pattern:—with 12-point openings 1-1/16 to
1-5/8".

"SUPERSOCKET" ATTACHMENTS

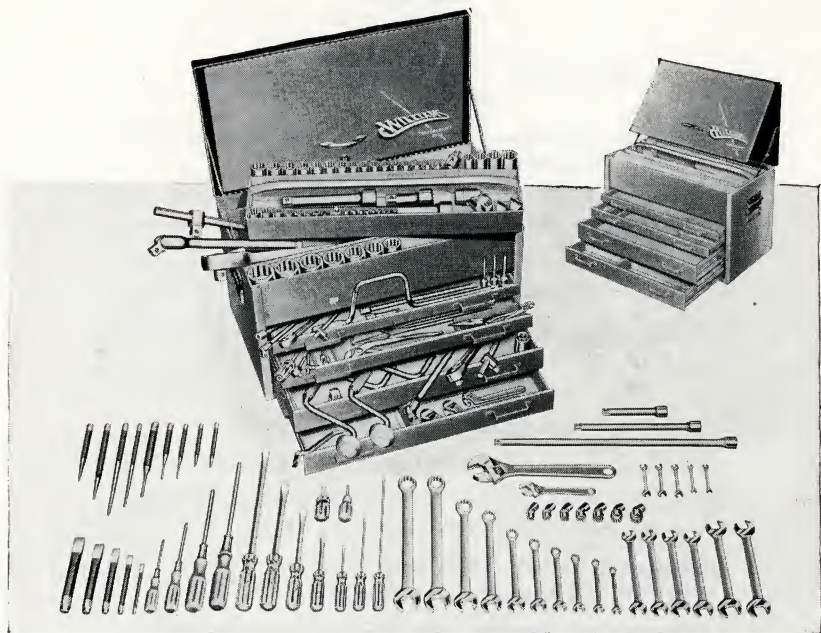
- 3 Midget Pattern:—Nos. NM-20A, NM-51 and NM-106.
- 11 Bantam Pattern:—Nos. B-15, B-20A, B-40, B-51, B-108,
B-110, B-115, B-140, BP-2, BP-3 and BP-4.
- 11 Standard Pattern:—Nos. S-10, S-15, S-20A, S-41, S-51,
S-110P, S-115P, S-121P, S-140, SB-30 and SB-40.
- 7 Heavy Duty Pattern:—Nos. H-20A, H-41, H-51, H-104,
H-110, H-115 and H-140.

"SUPERRENCHES"

- 6 Tappet Pattern:—2 each Nos. 1090D, 1092F and 1094
with 1/2, 9/16, 5/8, 11/16, 3/4 and 7/8" openings.
- 5 Midget Pattern:—15° angle openings 13/64 to 3/8".
- 10 Open End-Box Pattern:—openings 5/16 to 1".

"SUPERPLIERS"

- 1 1517 Pliers for brake-shoe springs, 13" long.
- 1 1519 Midget 4-position slip-joint plier, 4-1/2" long.
- 1 1520 Standard 8-position slip-joint plier, 9-1/2" long.


"SUPERCHEST" No. 2001

51 Sockets, 37 Attachments and 58 Wrenches, etc.

Total Weight, 118-1/2 lbs.

2 Color Steel Chest—12-5/8 x 15-1/8 x 23-1/2"

Weight, 51 lbs.

This "Superchest" contains a wide range of sockets and attachments in 1/4, 3/8, 1/2 and 3/4" drives giving the operator an extremely flexible wrench system. Additional "Superrenches", pliers, chisels, screwdrivers, etc. make this set remarkably versatile.

Chest is constructed of heavy gauge steel adequately reinforced and welded. Drawers with handy compartments operate on free acting suspension slides. Removable "tote" tray gives easy access to the roomy interior. Cylinder lock on hinged front panel locks entire chest.

Contents

WILLIAMS' "SUPERCHEST" No. 2001

"SUPERSOCKETS"

- 9 Midget Pattern:—4 6-point openings, 3/16 to 9/32"; 5 12-point openings 5/16 to 1/2".
- 15 Bantam Pattern:—7 Regular with 12-point openings 3/8 to 3/4"; 1 Extra Deep with 13/16" 12-point opening; 7 Universals with 12-point openings 3/8 to 3/4".
- 20 Standard Pattern:—16 Regular with 12-point openings 3/8 to 1"; 4 Extra Deep with 12-point openings 11/16 to 1".
- 7 Heavy Duty Pattern:—12-point openings 1-1/16 to 1-5/8".

"SUPERSOCKET" ATTACHMENTS

- 5 Midget Pattern:—Nos. NM-20A, NM-51, NM-106, NMP-1 and NMP-2.
- 12 Bantam Pattern:—Nos. B-15, B-20A, B-40, B-51, B-108, B-110, B-115, B-140, BP-2, BP-3, BP-4 and BS-130.
- 13 Standard Pattern:—Nos. S-10, S-15, S-20A, S-41, S-51, S-55, S-110P, S-115P, S-121P, S-140, SB-30, SB-40, SH-130.
- 7 Heavy Duty Pattern:—Nos. H-20A, H-41, H-51, H-104, H-110, H-115 and H-140.

"SUPERRENCHES"

- 6 Tappet Pattern:—2 each Nos. 1090D, 1092F and 1094 with 1/2, 9/16, 5/8, 11/16, 3/4 and 7/8" openings.
- 5 Midget Pattern:—15° angle openings 13/64 to 3/8".
- 10 Open End-Box Pattern:—openings 5/16 to 1".
- 3 Adjustable Hook Spanners:—for circles 3/4 to 4-3/4".
- 1 Special "Superrench":—for Star Nut, etc.—Bendix Hydraulic.

"SUPERJUSTABLES"

- 2 One each—6" and 12"—Capacity 0 to 1-5/16".

"SUPERPLIERS", ETC.

- 1 No. 76 Needle Nose Side Cutting Pliers, 6" long.
- 1 1517 Pliers for brake-shoe springs, 13" long.
- 1 1519 Midget 4-position slip-joint plier, 4-1/2" long.
- 1 1520 Standard 8-position slip-joint plier, 9-1/2" long.

REGULAR SCREW DRIVERS

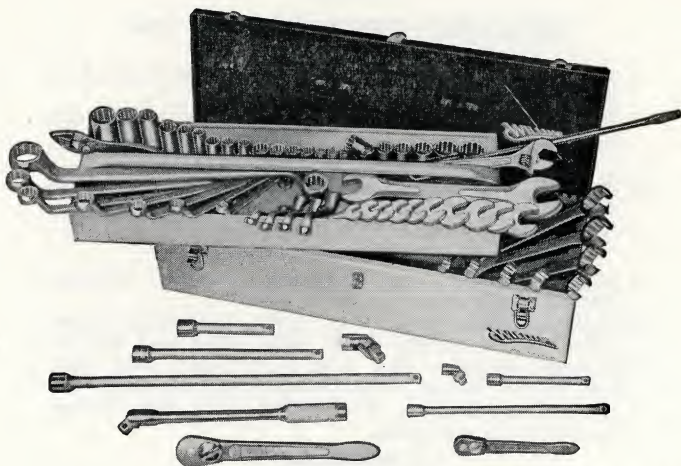
- 4 Square Blades—4, 6, 8 and 12" long.
- 3 Round Blades—3, 6 and 10" long.
- 1 Regular Stubby—Blade, 1-1/2" long.

PHILLIPS SCREW DRIVERS

- 5 Including Stubby—fit entire range of Phillips Screws.

PUNCHES AND CHISELS

- 3 Pin Punches—with points 1/8, 3/16 and 1/4".
- 2 Solid Punches—with points 3/32 and 1/8".
- 2 Long Taper Punches—with points 5/32 and 3/16".
- 1 Prick Punch—5" long.
- 1 Center Punch—5" long.
- 5 Cold or Flat Chisels—4-3/4 to 7" long.



Set Illustrated is No. DLP-65

SET No. DLM-52

For Diesel Engine Mechanics

Total Weight, 35-5/8 lbs.

SET No. DLE-53

For Diesel Engine Electricians

Total Weight, 33 lbs.

SET No. DLP-65

For Diesel Engine Pipe Fitters

Total Weight, 41-1/2 lbs.

All Sets Complete in Metal Case, 6-3/4 x 7-1/2 x 23-3/4"

These sets are specially designed for mechanics, electricians and pipe fitters who service diesel engine installations in all types of stationary and mobile units such as power plants, locomotives, ships, trucks, tractors, buses, etc. They are particularly adapted for use by manufacturers of diesel powered equipment who require service tools as part of the original equipment or in assembly work.

(Contents listed on following page)

Contents

SET No. DLM-52

Contains 5 Bantam "Supersockets" with 12-point openings 3/8 to 5/8"; 2 Bantam Universal "Supersockets" with 12-point openings 1/2 to 9/16"; 15 Standard "Supersockets" with 12-point openings 3/8 to 1-1/4"; 2 Standard Extra Deep "Supersockets" with 12-point openings 1/2 and 3/4".

3 Bantam Attachments—Reversible Ratchet, Extension and Universal Joint; 6 Standard Attachments—Reversible Ratchet, Speeder, Flex Handle, 2 Extension Bars and Universal Joint.

9 Engineers' Pattern—15° Angle, Double Head "Superrenches" with openings 3/8 x 7/16 to 15/16 x 1"; 5 Double Offset-Box Pattern "Superrenches" with openings 1/2 x 9/16 to 7/8 x 15/16".

2 Pliers—Side Cutting and Diagonal Cutting; 2 Screw Drivers—8 and 12" blades; 1 8" "Superjustable" Wrench.

SET No. DLE-53

Contains 7 Bantam "Supersockets" with 12-point openings 3/8 to 3/4"; 1 Bantam Extra Deep "Supersocket" with 13/16" 12-point opening; 17 Standard "Supersockets" with 12-point openings 3/8 to 1-1/4".

2 Bantam Attachments—Reversible Ratchet and Universal Joint; 4 Standard Attachments—Reversible Ratchet, Speeder, Screw Driver Attachment and Universal Joint.

15 Engineers' Pattern—15° Angle, Double Head "Superrenches" with openings 5/16 x 3/8 to 1-1/16 x 1-1/8".

3 Pliers—Side Cutting, Diagonal Cutting and Needle Nose; 3 Screw Drivers—1-1/2, 8 and 12" blades; 1 10" "Superjustable" Wrench.

SET No. DLP-65

Contains 7 Bantam "Supersockets" with 12-point openings 3/8 to 3/4"; 3 Bantam Extra Deep "Supersockets" with 12-point openings 1/2 to 3/4"; 8 Standard "Supersockets" with 12-point openings 3/8 to 1-1/8"; 3 Standard Extra Deep "Supersockets" with 12-point openings 3/4 to 1-1/8"; 1 Standard Universal "Supersocket" with 3/4" 12-point opening.

4 Bantam Attachments—Reversible Ratchet, Universal Joint and 2 Extension Bars; 6 Standard Attachments—Reversible Ratchet, Flex Handle, Universal Joint and 3 Extension Bars.

11 Engineers' Pattern—15° Angle, Double Head "Superrenches" with openings 3/8 x 7/16 to 1-1/16 x 1-1/8"; 11 Double Offset-Box Pattern "Superrenches" with openings 3/8 x 7/16 to 9/16 x 5/8"; 8 Flare Nut Pattern "Superrenches" with openings 9/16 to 1-1/8".

1 Side Cutting Pliers; 1 12" Screw Driver and 1 8" "Superjustable" Wrench.

Williams' Heavy Duty "Supersockets" are made from Selected Alloy Steel, heat-treated and chrome-plated. Packed 2 in a box.

REGULAR 12-POINT SOCKETS



Size Opening	No.	U. S. Std. Nut	Hex Cap Screw Size	S.A.E. Std. Nut	Amer. Std. Nut; Reg. & Jam
7/8	H-1228	1/2	5/8	9/16	9/16
15/16	H-1230	9/16	.....	5/8	.....
31/32	H-1231	.....	3/4	.....	5/8
1	H-1232	.....	7/8	.....	3/4
1- 1/16	H-1234	5/8	.....	.....	.....
1- 1/8	H-1236	.....	.....	.....	.....
1- 3/16	H-1238	.....	.....	.....	.....
1- 1/4	H-1240	3/4	.....	7/8	.....
1- 5/16	H-1242	.....	1	.....	7/8
1- 3/8	H-1244	.....	.....	.....	.....
1- 7/16	H-1246	7/8	.....	1	.....
1- 1/2	H-1248	.....	1-1/8	.....	1
1- 5/8	H-1252	1	.....	1-1/8	.....
1-11/16	H-1254	.....	1-1/4	.....	1-1/8
1- 3/4	H-1256	.....	.....	.....	.....
1-13/16	H-1258	1-1/8	.....	1-1/4	.....
1- 7/8	H-1260	.....	.....	.....	1-1/4
2	H-1264	1-1/4	.....	1-3/8	.....
2- 1/16	H-1266	.....	.....	.....	1-3/8
2- 1/8	H-1268	.....	.....	.....	.....
2- 3/16	H-1270	1-3/8	.....	1-1/2	.....
2- 1/4	H-1272	.....	.....	.....	1-1/2

EXTRA DEEP 12-POINT SOCKETS



12-Point Opening, Size	No.	U. S. Std. Nut	S.A.E. Std. Nut	Extreme Length
15/16	HD-1230	.....	5/8	3-1/4
1-1/16	HD-1234	5/8	3/4	3-1/4
1-1/4	HD-1240	3/4	7/8	3-1/4
1-7/16	HD-1246	7/8	1	3-1/2

HEAVY DUTY PATTERN HANDLES AND PARTS

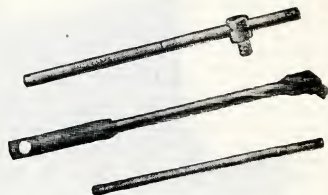
3/4" SQUARE DRIVE

WILLIAMS

H-20A — Sliding T Handle — 17-1/2" long.

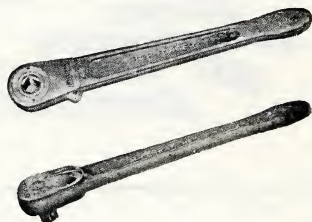
H-41 — Flex Handle — 20" long; flexible head, knurled grip and cross hole for Sliding Bar.

H-41B — Sliding Bar, 3/4" round x 16" for H-41 and NX-41.



H-50 — Ratchet — 18" long; complete with Plug-Connector H-150.

H-51 — Reversible Ratchet — 19" long. 24 teeth in Ratchet-gear instead of usual 16. Turning Shift-lever reverses action instantly.



H-104 — Extension Bar — 4" long.

H-110 — Extension Bar — 8" long.

H-115 — Extension Bar — 15-1/2" long.



HNX-130 — Adapter — 3/4" square female and 1" square male.

HX-130 — Adapter — 3/4" square female and 1" hex male.

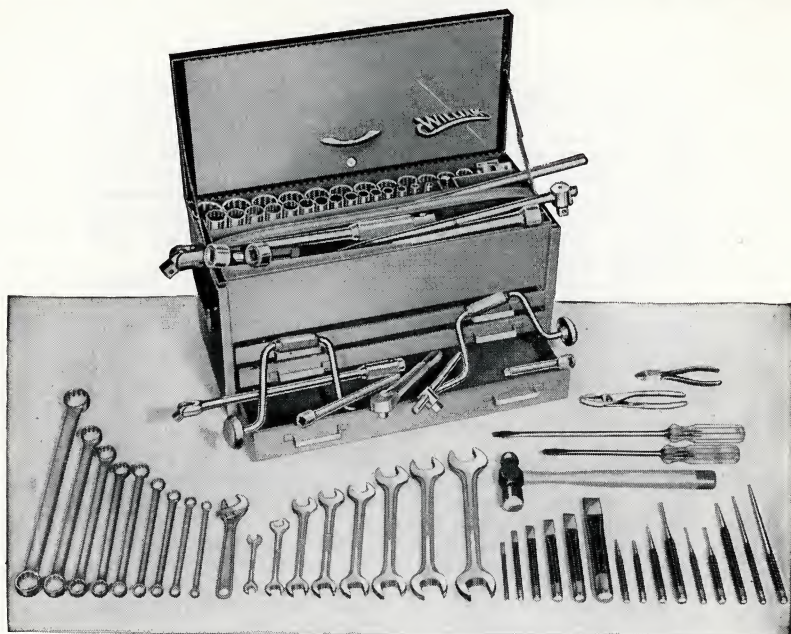
H-140 — Universal — approximate range 140°.

H-150 — Plug Connector for H-50 Ratchet.

HH-150 — Plug Adapter — 5/8" square male and 3/4" square male.

HNX-151 — Adapter — 1" square male and 3/4" square male.





SET No. DLS-70

30 Sockets, 15 Attachments and 38 Wrenches, etc.

Total Weight, 96-1/8 lbs.

2 Color Steel Chest—10-1/4 x 12 x 23-1/2"

Weight, 36 lbs.

This set is specially designed for mechanics doing general service work on diesel engine installations in all types of stationary and mobile units such as power plants, locomotives, ships, trucks, tractors, buses, etc. It contains all the standard tools needed for general diesel engine service work. Ideal for all diesel locomotive service shops.

Chest is constructed of heavy gauge steel adequately reinforced and welded. Drawers with handy compartments operate on free acting suspension slides. Removable "tote" tray gives easy access to the roomy interior. Cylinder lock on hinged front panel locks entire chest.

(Contents listed on following page)

Contents

SET No. DLS-70

"SUPERSOCKETS"

- 18 Standard Pattern:—with 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 31/32, 1, 1-1/16, 1-1/8, 1-3/16, and 1-1/4" 12-point openings.
- 12 Heavy Duty Pattern:—with 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2 and 1-5/8" 12-point openings.

"SUPERSOCKET" ATTACHMENTS

- 8 Standard Pattern:—Nos. S-10, S-15, S-20A, S-41, S-51, S-110P, S-115P, and S-140.
- 7 Heavy Duty Pattern:—Nos. H-20A, H-41, H-41B, H-104, H-110, H-115, and H-140.

"SUPERRENCHES"

- 10 15° Angle Offset-Box Pattern:—with 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16, 9/16 x 5/8, 5/8 x 3/4, 11/16 x 3/4, 3/4 x 7/8, 15/16 x 1, 1-1/16 x 1-1/8 and 1-1/16 x 1-1/4" openings.
- 8 15° Angle Double Head Engineers' Pattern:—with 3/8 x 7/16, 1/2 x 9/16, 5/8 x 3/4, 11/16 x 25/32, 3/4 x 7/8, 15/16 x 1, 1-1/16 x 1-1/8 and 1-1/8 x 1-1/4" openings.

PUNCHES AND CHISELS

- 3 Pin Punches:—with points 1/8, 3/16, and 1/4".
- 2 Solid Punches:—with points 3/32 and 1/8".
- 2 Long Taper Punches:—with points 5/32 and 3/16".
- 1 Prick Punch:—5" long.
- 1 Center Punch:—5" long.
- 6 Cold or Flat Chisels:—4-3/4 to 8" long.

SCREW DRIVERS - PLIERS - HAMMER - "SUPERJUSTABLE"

- 2 Screw Drivers:—with round blades 8 and 12" long.
- 1 Side Cutting Pliers:—7" long.
- 1 Diagonal Cutting Pliers:—6" long.
- 1 Ball Pein Hammer:—No. 2—1-1/2 lbs.
- 1 8" "Superjustable" Wrench

12-POINT SOCKETS

Williams' Extra Heavy Duty Sockets provide sturdy strength for the hardest service. They are cross-drilled to receive Sliding Handle, bringing same close to the work. Minimizes tendency to tip when socket is used near the end of handle. Rotates nuts where handle swing is only 30°.

The "Lock-Socket" device provides a positive lock between sockets and attachments. To release "Lock-Socket" press button on socket and pull. Eliminates danger of sockets becoming detached in service. Selected Alloy Steel, heat-treated in electric furnaces. To use Extra Heavy Duty Sockets (1" square female drive) with Heavy Duty Handles and Parts (3/4" square male drive), use Adapter HNX-130, pages 21 and 26.



Size Opening	No.	U.S. Std. Nut; Size Bolt	Hex Hd. Cap Scr. Size Screw	S.A.E. Std. Nut and Cap Screw	Am. Std. Reglr. & Jam Nut
1- 1/16	NX-1234	5/8	.....	3/4	.....
1- 1/8	NX-1236	.....	7/8	.....	3/4
1- 1/4	NX-1240	3/4	.....	7/8	.....
1- 3/8	NX-1244	.....	.....	.....	.....
1- 7/16	NX-1246	7/8	.....	1	.....
1- 1/2	NX-1248	.....	1-1/8	.....	1
1- 5/8	NX-1252	1	.....	1-1/8	.....
1-13/16	NX-1258	1-1/8	.....	1-1/4	.....
1- 7/8	NX-1260	.....	.....	.....	1-1/4
2-	NX-1264	1-1/4	.....	1-3/8	.....
2- 1/8	NX-1268	.....	.....	.....	.....
2- 3/16	NX-1270	1-3/8	.....	1-1/2	.....
2- 1/4	NX-1272	.....	.....	.....	1-1/2
2- 3/8	NX-1276	1-1/2	.....	.....	.....
2- 1/2	NX-1280	.....	.....	.....	.....
*2- 9/16	NX-1282	1-5/8	.....	.....	.....
*2- 5/8	NX-1284	.....	.....	.....	1-3/4
*2- 3/4	NX-1288	1-3/4	.....	.....	.....
*2-15/16	NX-1294	1-7/8	.....	.....	.....
*3- 1/8	NX-12100	2	.....	.....	.....

* These Sockets have short neck, no cross-hole.

EXTRA HEAVY DUTY HANDLES AND PARTS

1" SQUARE DRIVE

WILLIAMS

NX-20B — Sliding Handle — 1" diameter, 20" long.

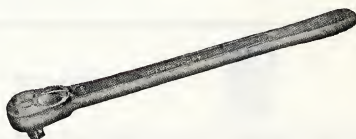
NX-20C—Adapter for Sliding Handle NX-20B.



NX-41 — Flex Handle — 27" long; flexible head, knurled grip and cross hole for Sliding Bar H-41B — See page 21.

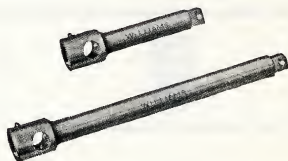


NX-51 — "Superratchet" — Reversible — 25" long. Has 24 teeth in Ratchet-gear instead of the usual 16. The turning shift-lever reverses ratchet action instantly.



NX-110 — Extension Bar — 9" long. Has cross hole for Sliding Handle NX-20B.

NX-115 — Extension Bar — 18" long. Has cross hole for Sliding Handle NX-20B.



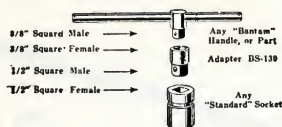
X-150 — Ratchet Plug Connector, 1" Hex.

XX-130 — Adapter — 1" square female and 1" hex male.

XX-131 — Adapter — 1" hex female and 1" square male.

XX-150 — Adapter — 1" square male and 1" hex male.





For adapting Sockets of one pattern with Handles and Parts of another. Illustration shows how adapter BS-130 permits use of "Bantam" Handles with "Standard" Sockets.



MB-130 — 1/4" square female and 3/8" square male.

MB-131 — 3/8" square female and 1/4" square male.



BS-130 — 3/8" square female and 1/2" square male.

BS-131 — 1/2" square female and 3/8" square male.

SH-130 — 1/2" square female and 3/4" square male.

SH-131 — 1/2" square male and 3/4" square female.

HNX-130 — 3/4" square female and 1" square male.



HX-130 — 3/4" square female and 1" Hex male.



XX-130 — 1" square female and 1" Hex male.



XX-131 — 1" Hex female and 1" square male.



BM-150 — 3/8" square male and 1/4" square male.

HH-150 — 3/4" square male and 5/8" square male.

HNX-151 — 1" square male and 3/4" square male.



XX-150 — 1" Hex male and 1" square male.

HOLLOW-SCREW WRENCH SET

WILLIAMS

SET No. AL-102

Complete in Metal Case

Total Weight, 4-1/8 lbs.

Case Only—1-1/2 x 3 x 12-1/2"

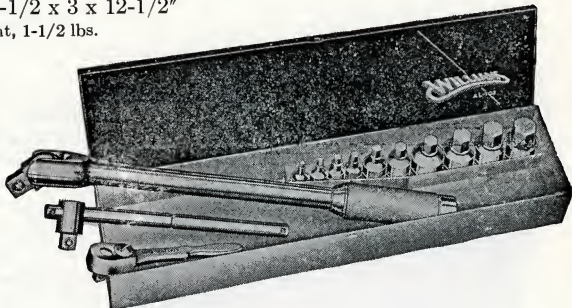
Weight, 1-1/2 lbs.

This Set of Williams' detachable "Supersocket" Bits and Parts provides especially efficient wrenches for all popular hollow (hex socket) set screws and cap screws; see table.

Replacing old type L-shape wrenches, bent from hex bar steel, these tools provide all the advantages of the Detachable Socket Wrench system for users of Hollow-Screws.

Detachable "Bits," with projecting hex plug, are substituted for conventional detachable sockets. Only Williams' Bits have knurled end for fast spinning of screws before tightening.

Bits and Parts, made from Selected Alloy Steel, are heat-treated in electric furnaces. They inter-change in Williams' regular Midget, Bantam and Standard "Supersocket" lines.



"Supersocket" Bits—Sold in Set No. AL-102 or Individually

Socket Bit, No.	Hex Plug, Size	For Hollow Screws		Square Drive
		Set Screw	Cap Screw	
NAM-604	1/8	1/4	No. 8	1/4
NAM-605	5/32	5/16	10 & 12	1/4
NAM-606	3/16	3/8	1/4	1/4
NAM-607	7/32	7/16	5/16	1/4
AB-608	1/4	1/2 & 9/16	.....	3/8
AB-610	5/16	5/8	3/8 & 7/16	3/8
AS-612	3/8	3/4	1/2 & 9/16	1/2
AS-616	1/2	7/8	5/8	1/2
AS-618	9/16	1 & 1-1/8	3/4 & 7/8	1/2
AS-620	5/8	1-1/4 & 1-3/8	1	1/2



NM-51 — Reversible Ratchet — 1/4" Square Drive, 4-1/2" long. 24 teeth in ratchet-gear instead of usual 14 to 20. Turning shift-lever reverses the action instantly.

B-20A — Sliding T Handle — 3/8" Square Drive, 6-1/2" long.

S-40 — Flex Handle — 1/2" Square Drive, 12" long, flexible head. Knurled grip with 1/2" square drive hole in end for use as an Extension.



REFRIGERATION SERVICE SET No. R-19A

Complete in Metal Case

Total Weight, 2-3/4 lbs.

1-1/4 x 3-3/8 x 7-3/4"

Weight, 3/4 lb.

Contents of Set

5 Midget "Supersockets"—1/4" square drive sq. openings—3/16, 7/32, 1/4"—8 pt.—5/16, 3/8". 3 Bantam "Supersockets"—3/8" square drive 12-point openings—7/16, 1/2 and 9/16". 5 Packing Gland Nut "Supersockets" 1/4" sq. dr. 1 Kerotest Valve Packing Nut "Supersocket" Oval opening 1/2 x 3/8"—1/4" square drive. MR-51 Reversible "Superratchet" with 1/4" sq. female drive in head, 5/16, 1/4, 3/16" sq. and 1/2" hex openings in handle. NM-150 Plug Adapter—both ends 1/4" sq. male. BM-150 Adapter—3/8 and 1/4" square male. NM-20A Sliding T Handle—4-1/2", 1/4" sq. drive. NM-115 Extension—6" long, 1/4" square drive. B-110 Extension—5-1/2" long, 3/8" square drive.



"SUPERRATCHETS"

For speedy, accurate adjustment of all valves.

Drop-forged from Selected Alloy Steel, heat-treated, chrome-plated.

MR-51—6" long. Light weight, reversible ratchet has 1/4" female drive in head, 5/16, 1/4, 3/16" square and 1/2" hex openings in handle for delicate valve adjustments, etc. Cadmium-plated.

B-50A—6-1/2" long. Has 1/4" ratchet drive; also, 1/4" square hole in handle end.

B-50B—6-1/2" long. Has 5/16" square ratchet drive opening only. Handle end is plain.



WHEEL PULLER No. 5

PATENTED

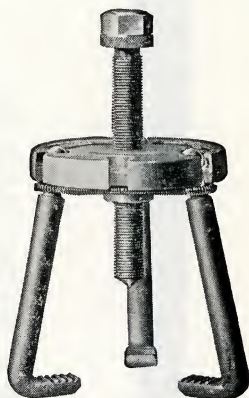
For Refrigeration Service

This Williams' Wheel Puller is a simple efficient tool developed for the many pulling jobs in Refrigeration Service, such as flywheels, fans and pulleys. It can also be used for many pulling jobs on electric motors, etc.

The body, forged from high tensile steel, has four sockets into which either two or all three of the arms may be placed in various positions, providing a combination of grips. Flywheels with even or odd numbers of spokes are pulled with equal ease. All three arms are necessary for odd-spoked wheels, while only two are needed for an even number of spokes. The pulling capacity is 7" diameter.

Easily adjusted arms processed from alloy steel, are held in place by an endless spring. They are instantly reversible by merely turning the arm in the socket for either internal or external pulling. This feature eliminates the need of removing or repositioning the arms.

The hex head of the power screw, on which any convenient wrench can be used, has a knurled band to facilitate rapid hand turning. Its cone point fits into the center-hole of the shaft end.



No.	Capacity Diameter	Body Diameter	Length Arms	Extra Parts		
				Arms	Screw	Spring
5	7	3 1/4	4 1/4			

THE "SUPERECTOR"

PATENTED

REVERSIBLE RATCHET WRENCH

With Quadruple Pawls and Drop-Forged Handle

Fully Guaranteed



The "SUPERECTOR" is built for rapid operation in the most severe service such as bridge, structural and other work requiring fast, dependable tools of rugged strength. Instantly reversible in action. Ample leverage for the hardest jobs. Finished in light gray enamel.

Only WILLIAMS' "SUPERECTOR"

offers all the following advantages.

QUADRUPLE PAWLS. Two pawls engaging 2 teeth for both ON and OFF rotation of nuts, providing increased bearing and strength. Made of hardened tool steel designed to provide straight compressive loading on the pawls and teeth—the sturdiest construction possible.

HANDLE drop-forged (not cast) from special high grade steel. **GEAR TEETH.** 20 teeth in ALL socket gears instead of the usual 16 teeth. All wrenches will rotate with only an 18° swing of the wrench as against 22-1/2°.

SHIFTER. When in neutral, completely disengages all gears for easy insertion and removal of the Socket. A flip of the lever reverses the action of the wrench.

COLLAR for retaining socket has a projection on inner surface which registers easily with a corresponding slot in the neck of the Socket. No fumbling for set screw "spots."

CAP, securely seated in wrench head is fastened with one screw, fully enclosing mechanism and permitting easy removal.

SOCKETS have hole through center; turn nuts on any length of bolt. Made in three groups—E1, E2, E3—to fit corresponding Wrenches; see table. Sockets in different groups are not interchangeable. All are heat-treated for maximum strength.

Order Wrenches and Sockets by Number

THE "SUPERECTOR"

WILLIAMS

WRENCHES ONLY, without SOCKETS

No.	Length	No.	Length	No.	Length
E1-24	24	E2-36	36	E3-48	53
E1-36	36	E2-48	48		
E1 Sockets fit both above Wrenches only.		E2 Sockets fit both above Wrenches only.		E3 Sockets fit the above Wrench only.	

SOCKETS ONLY — Hex and Square

Nominal Opening, Size Across Flats	Number		U.S. Std. Nut and Amer. Std. HEAVY Nut, Hex and Sqr.	For S.A.E. Std. Nut, Hex Only	Amer. Std. Regular and Jam Nuts, Hex & Sqr.
	Hex Socket	Square Socket			

E1 SOCKETS below fit E1-24 and E1-36 Wrenches ONLY

1		E1-416			5/8
1- 1/16	E1-617	E1-417	5/8	3/4	
1- 1/8	E1-618	E1-418			3/4
1- 1/4	E1-620	E1-420	3/4	7/8	
1- 5/16	E1-621	E1-421			7/8
1- 7/16	E1-623	E1-423	7/8	1	
1- 1/2	E1-624	E1-424			1
1- 5/8	E1-626	E1-426	1	1-1/8	
1-11/16	E1-627				1-1/8
1- 3/4	E1-628				
1-13/16	E1-629	E1-429	1-1/8	1-1/4	
1- 7/8	E1-630	E1-430			1-1/4
2	E1-632	E1-432	1-1/4	1-3/8	
2- 1/16	E1-633				1-3/8
2- 3/16	E1-635	E1-435	1-3/8	1-1/2	
2- 1/4	E1-636	E1-436			1-1/2

E2 SOCKETS below fit E2-36 and E2-48 Wrenches ONLY

2	E2-632	E2-432	1-1/4	1-3/8	
2- 3/16	E2-635	E2-435	1-3/8	1-1/2	
2- 3/8	E2-638	E2-438	1-1/2		
2- 9/16	E2-641	E2-441	1-5/8		
2- 3/4	E2-644	E2-444	1-3/4		
2-15/16	E2-647	E2-447	1-7/8		
3- 1/8	E2-650	E2-450	2		

E3 SOCKETS below fit E3-48 Wrench ONLY

3- 1/8	E3-650	E3-450	2		
3- 1/2	E3-656	E3-456	2-1/4		
3- 7/8	E3-662	E3-462	2-1/2		
4- 1/4	E3-668	E3-468	2-3/4		
4- 5/8	E3-674	E3-474	3		

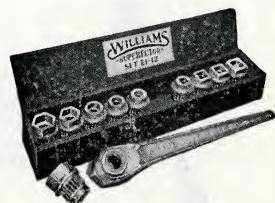
SET No. E1-12

12 Pieces

In Wooden Box 36 x 6 x 5 1/2"

Weight, 42 lbs.

Contains "Superector" Wrench E1-24 and 11 Sockets:
4 Square — 1-1/16, 1-1/4, 1-7/16 and 1-5/8".
7 Hex—1-1/16, 1-1/4, 1-7/16, 1-5/8, 1-13/16, 2, 2-3/16".



15° ANGLE OFFSET PATTERN

These strong, tough "Superrenches" have thin head walls for use in close quarters. The 12-point openings grip hex nuts on six sides, preventing all slipping and rounding of nuts.

GENUINE "Superrenches", drop-forged from Selected Alloy Steel, heat-treated and chrome-plated over nickel, heads bright.



No.	12-Point Openings	U. S. Std. Nuts	Hex Cap Screws	S.A.E. Std. Nuts	Amer. Std. Regular Nuts
Long 15° Angle—7-3/8 to 23 in.—Chrome-plated					
7723	3/8 & 7/16	3/16 & 1/4	1/4 & 5/16	1/4 & 5/16	1/4
7023	15/32 & 1/2	3/16 & 1/4	1/4 & 5/16	1/4 & 5/16	1/4
7725	7/16 & 1/2	1/4 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4
7725A	7/16 & 9/16	1/4 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4
7725B	1/2 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4
7025	1/2 & 19/32	1/4 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4
7727	9/16 & 5/8	3/8 & 7/16	3/8 & 7/16	3/8 & 7/16	3/8
7027	13/16 & 11/16	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	5/16
7727A	5/8 & 11/16	7/16 & 1/2	7/16 & 1/2	7/16 & 1/2	7/16
7729	5/8 & 3/4	7/16 & 1/2	7/16 & 1/2	7/16 & 1/2	7/16
7029B	11/16 & 3/4	3/8 & 7/16	3/8 & 7/16	3/8 & 7/16	3/8
7729A	11/16 & 25/32	3/8 & 7/16	3/8 & 7/16	3/8 & 7/16	3/8
7030	3/4 & 25/32	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7731A	3/4 & 7/8	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7031B	3/4 & 15/16	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7031	25/32 & 15/16	7/16 & 1/2	7/16 & 1/2	7/16 & 1/2	7/16
7731B	13/16 & 7/8	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7033A	7/8 & 15/16	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7733	7/8 & 1	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7033C	15/16 & 1	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7034	7/8 & 1 1/16	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7034A	15/16 & 1 1/16	1/2 & 5/8	1/2 & 5/8	1/2 & 5/8	1/2
7735	1 & 1 1/8	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7735A	1 1/16 & 1 1/8	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7037	1 1/16 & 1 1/4	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7037A	1 1/8 & 1 5/16	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7039B	1 1/4 & 1 5/16	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7039	1 1/4 & 1 7/16	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7039A	1 5/16 & 1 1/2	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7040B	1 7/16 & 1 1/2	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7041	1 7/16 & 1 5/8	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4
7742B	1 1/2 & 1 11/16	3/4 & 7/8	3/4 & 7/8	3/4 & 7/8	3/4



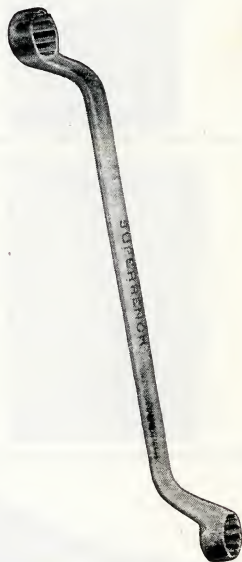
Short 15° Angle—4-1/2 to 6 in.—Chrome-plated

6723	3/8 & 7/16	3/16 & 1/4	1/4 & 5/16	1/4 & 5/16	1/4
6725	7/16 & 1/2	1/4 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4
6725A	7/16 & 9/16	1/4 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4
6725B	1/2 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4
6025	1/2 & 15/32	1/4 & 5/16	1/4 & 5/16	1/4 & 5/16	1/4
6727	9/16 & 5/8	3/8 & 7/16	3/8 & 7/16	3/8 & 7/16	3/8

DOUBLE OFFSET PATTERN

For description and finish—see opposite page; Sets page 38.

No.	12-Point Openings	U. S. Std. Nuts	Hex Cap Screws	S.A.E. Std. Nuts	Amer. Std. Regular Nuts
Long Double Offset—7-3/4 to 19"—Chrome-plated					
8021	$\frac{5}{16}$ & $\frac{13}{32}$	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
8723	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
8023	$\frac{13}{32}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{5}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
8725	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
8725A	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
8725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$
8025	$\frac{1}{2}$ & $\frac{19}{32}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$
8727	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$
8027	$\frac{19}{32}$ & $\frac{11}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$
8727A	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{3}{8}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$
8729	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$
8029B	$\frac{11}{16}$ & $\frac{3}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{2}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8029	$\frac{11}{16}$ & $\frac{25}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8729A	$\frac{3}{4}$ & $\frac{25}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8030	$\frac{11}{16}$ & $\frac{7}{8}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8731	$\frac{3}{4}$ & $\frac{15}{16}$	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8731A	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8031B	$\frac{25}{32}$ & $\frac{13}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8031	$\frac{25}{32}$ & $\frac{7}{8}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8731B	$\frac{13}{16}$ & $\frac{7}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8033A	$\frac{7}{8}$ & $\frac{15}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8733	$\frac{7}{8}$ & 1	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8033C	$\frac{15}{16}$ & 1	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8034	$\frac{7}{8}$ & $\frac{11}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8034A	$\frac{15}{16}$ & $\frac{11}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$
8735	1	$\frac{11}{16}$ & $\frac{11}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$
8735A	$\frac{11}{16}$ & $\frac{11}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$
8037	$\frac{11}{16}$ & $\frac{11}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$
8037A	$\frac{11}{16}$ & $\frac{11}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$
8039B	$\frac{11}{16}$ & $\frac{11}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$
8039	$\frac{11}{16}$ & $\frac{11}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$
8039A	$\frac{11}{16}$ & 1	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$



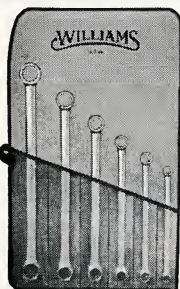
For Heavy Service—21 to 30"—Round Handle—Gray Enameled

8040B	$1\frac{17}{16}$	&	$1\frac{1}{2}$	$\frac{7}{8}$	$1\frac{1}{8}$	1
8041	$1\frac{17}{16}$	&	$1\frac{5}{8}$	$\frac{7}{8}$ & 1	1	
8742B	$1\frac{11}{2}$	&	$1\frac{11}{16}$		$1\frac{1}{8}$ & $1\frac{1}{4}$	1 & $1\frac{1}{8}$
8045	$1\frac{13}{16}$	&	2	$1\frac{11}{8}$ & $1\frac{1}{4}$	$1\frac{1}{4}$ & $1\frac{5}{8}$	
8049	$2\frac{3}{16}$	&	$2\frac{3}{8}$	$1\frac{9}{8}$ & $1\frac{1}{2}$	$1\frac{1}{2}$	
8053	$2\frac{3}{16}$	&	$2\frac{3}{4}$	$1\frac{5}{8}$ & $1\frac{3}{4}$		

Short Double Offset—4-1/2 to 6"—Chrome-plated

9723	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
9725	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
9725A	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
9725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
9025	$\frac{1}{2}$ & $\frac{19}{32}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$
9727	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$





SET No. 7006

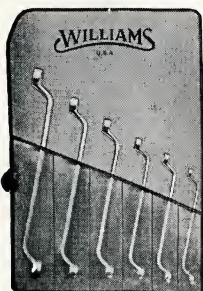
In Leatherette Roll

In Cardboard Box

6 Long 15° Angle Offset Box "Superrenches"

Different Opening in Each Head

12-point openings 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 25/32, 3/4, 7/8, 15/16 and 1". Lengths, 7-3/8 to 13-3/4".



SET No. 8006

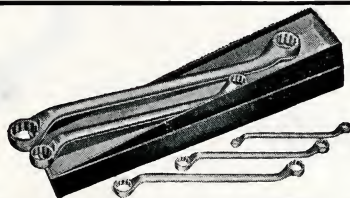
In Leatherette Roll

In Cardboard Box

6 Long Double Offset Box "Superrenches"

Different Opening in Each Head

Openings 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 25/32, 3/4, 7/8, 15/16 and 1". Lengths, 7-3/4 to 14-1/2".



SET No. 8005A

In Cardboard Box

5 Long Double Offset Box "Superrenches"

Different Opening in Each Head

12-point openings 1/2, 19/32, 11/16, 25/32, 7/8, 15/16, 1-1/16, 1-1/4, 1-7/16 and 1-5/8". Lengths, 8-3/4 to 23".



SET No. 6703

In Leatherette Roll

In Cardboard Box

3 Short 15° Angle Offset Box "Superrenches"

Openings 3/8, 7/16, 1/2, 9/16, 5/8". Lengths, 4-1/2 to 6".



SET No. 9703

In Leatherette Roll

In Cardboard Box

3 Short Double Offset Box "Superrenches"

Openings 3/8, 7/16, 1/2, 9/16, 5/8". Lengths, 4-1/2 to 6".

REGULAR 12-POINT BOX PATTERN

12-Point Opening — 7-1/2° Angle

For close quarters. Drop-forged from Selected Alloy Steel.
Heat-treated and chrome-plated over nickel, heads bright.

No.	Nominal Opening	U. S. Std. Nut	Hex Cap Screw	S.A.E. Std. Nut	Amer. Std. Nut
1800A	7/16	.....	1/4	1/4	1/4
1801	1/2	1/4	5/16	5/16	.....
1802A	9/16	.....	3/8	3/8	5/16
1802	19/32	5/16	.....	.....	.....
1803A	5/8	.....	7/16	7/16	3/8
1803	11/16	3/8	.....	.....	.....
1804A	3/4	.....	1/2	1/2	7/16
1804	25/32	7/16	.....	.....	.....
1805A	13/16	.....	9/16	.....	1/2
1805	7/8	1/2	5/8	9/16	9/16
1806	15/16	9/16	.....	5/8	.....
1806B	1	.....	3/4	.....	5/8
1807	1 1/16	5/8	.....	3/4	.....
1807A	1 1/8	.....	7/8	.....	3/4
1808	1 1/4	3/4	.....	7/8	.....
1808A	1 5/16	.....	1	.....	7/8
1809	1 7/16	7/8	.....	1	.....
1809A	1 1/2	.....	1 1/8	.....	1
1810	1 5/8	1	.....	1 1/8	.....
1810A	1 11/16	.....	1 1/4	.....	1 1/8
1811	1 13/16	1 1/8	.....	1 1/4	.....
1811A	1 7/8	.....	.....	.....	1 1/4
1812	2	1 1/4	.....	1 3/8	.....



HEAVY 12-POINT BOX PATTERN

12-Point Opening — 7-1/2° Angle

For close quarters. Drop-forged from Selected Alloy Steel.
Heat-treated and chrome-plated over nickel, heads bright.

No.	Nominal Opening	U. S. Std. Nut	Hex Cap Screw	S.A.E. Std. Nut	Amer. Std. Nut
H1808	1 1/4	3/4	.....	7/8	.....
H1808A	1 5/16	.....	1	.....	7/8
H1809	1 7/16	7/8	.....	1	.....
H1809A	1 1/2	.....	1 1/8	.....	1
H1810	1 5/8	1	.....	1 1/8	.....
H1810A	1 11/16	.....	1 1/4	.....	1 1/8
H1811	1 13/16	1 1/8	.....	1 1/4	.....
H1811A	1 7/8	.....	.....	.....	1 1/4
H1812	2	1 1/4	.....	1 3/8	.....
H1813	2 3/16	1 3/8	.....	1 1/2	.....
H1813A	2 1/4	.....	.....	.....	1 1/2
H1814	2 3/8	1 1/2	.....	.....	.....
H1815	2 9/16	1 5/8	.....	.....	.....
H1815A	2 5/8	.....	.....	.....	1 3/4
H1816	2 3/4	1 3/4	.....	.....	.....
H1817A	3	.....	.....	.....	2
H1817	3 1/8	2	.....	.....	.....



STRUCTURAL BOX PATTERN

Designed for greater safety in structural work, the 12-point offset head gives maximum clearances and insures a firm hold on nut. The long tapered handle provides ample leverage and can be inserted into bolt holes for alignment.

Drop-forged from Selected Alloy Steel, heat-treated and finished in Laked gray enamel all over.



No.	Nominal Openings	For U.S. Std. Nut; Size Bolt	Ex-treme Length, Approx.	Head		Handle Offset	
				Thick-ness	Outside Diam.	At Head	At End
8905A	13/16	.....	12	5/8	1-15/32	1- 1/8	1-25/32
8905	7/8	1/2	12	5/8	1-15/32	1- 1/8	1-25/32
8906	15/16	9/16	12	3/4	1- 5/8	1- 1/4	1-61/64
8906B	1	.....	12	3/4	1- 5/8	1- 1/4	1-61/64
8907	1- 1/16	5/8	15	13/16	1-53/64	1- 5/16	2- 9/64
8907A	1- 1/8	.....	15	13/16	1-53/64	1- 5/16	2- 9/64
8908	1- 1/4	3/4	17	7/8	2- 5/64	1- 7/16	2-21/64
8908A	1- 5/16	.....	17	7/8	2- 5/64	1- 7/16	2-21/64
8909	1- 7/16	7/8	21	1	2- 3/8	1- 1/2	2- 3/4
8909A	1- 1/2	.....	21	1	2- 3/8	1- 1/2	2- 3/4
8910	1- 5/8	1	22	1-1/16	2- 5/8	1- 5/8	2- 7/8
8910A	1-11/16	.....	22	1-1/16	2- 5/8	1- 5/8	2- 7/8
8911	1-13/16	1-1/8	23	1-1/8	2-29/32	1-11/16	3
8911A	1- 7/8	.....	23	1-1/8	2-29/32	1-11/16	3
8912	2	1-1/4	24-1/2	1-1/4	3- 5/32	1-13/16	3- 5/32
8913	2- 3/16	1-3/8	26	1-3/8	3-15/32	2	3- 1/2
8914	2- 3/8	1-1/2	28	1-1/2	3-23/32	2- 1/8	3-11/16
8915	2- 9/16	1-5/8	30	1-5/8	3-29/32	2- 1/4	3-13/16
8916	2- 3/4	1-3/4	30	1-3/4	4- 5/32	2- 3/8	3-29/32

NOTE: Heads can be bent up to 70° right or left of handle at extra cost.

12-POINT BOX "SUPERRENCHES"

WILLIAMS

STRIKING FACE BOX-OFFSET PATTERN

For heavy work in close quarters where large nuts must be set up tight or frozen nuts loosened. Offset head gives ample nut clearance. Drop-forged from Selected Alloy Steel and heat-treated. Finished in baked gray enamel all over.

No.	Nominal Openings	For U. S. Std. Nut; Size Bolt	For S.A.E. Std. Nut; Size Bolt	For Amer. Std. REGULAR Nut; Size Bolt	Ex- treme Length	Head Outside Diam.
8807	1 1/16	5/8	3/4		10 1/2	1 27/32
8807A	1 1/8			3/4	10 1/2	1 27/32
8808	1 1/4	3/4	7/8		11	2 3/32
8808A	1 5/16			7/8	11	2 3/32
8809	1 7/16	7/8	1		11 1/2	2 3/8
8809A	1 1/2			1	11 1/2	2 3/8
8810	1 5/8	1	1 1/8		12	2 5/8
8810A	1 11/16			1 1/8	12	2 5/8
8811	1 13/16	1 1/8	1 1/4		12 1/2	2 29/32
8811A	1 7/8			1 1/4	12 1/2	2 29/32
8812	2	1 1/4	1 3/8		13	3 5/32
8813	2 3/16	1 3/8	1 1/2		13 1/2	3 15/32
8813A	2 1/4			1 1/2	13 1/2	3 15/32
8814	2 3/8	1 1/2			14	3 23/32
8815	2 9/16	1 5/8			14 1/2	3 29/32
8815A	2 5/8			1 3/4	14 1/2	3 29/32
8816	2 3/4	1 3/4			15	4 5/32
8816B	2 15/16	1 7/8			16	4 21/32
8817A	3			2	16 1/2	4 15/16
8817	3 1/8	2			16 1/2	4 15/16



HEAVY STRIKING FACE BOX PATTERN

12-Point Opening—7-1/2° Angle

Heads approximately as thick as the nuts they handle. Drop-forged from Selected Alloy Steel and heat-treated. Finished in baked gray enamel all over.

No.	Nominal Opening Across Flats	Amer. Std. HEAVY Nut (U.S.S.) Size Bolt	Amer. Std. Hex Hd. Cap Scr. Dia. Scr.	Amer. Std. LIGHT Nut (S.A.E.) Size Bolt	Amer. Std. REGLR. Nut; Size Bolt	Ex- treme Length, Approx.
SFH-1808	1 1/4	3/4		7/8		7
SFH-1808A	1 5/16		1		7/8	7
SFH-1809	1 7/16	7/8		1		8
SFH-1809A	1 1/2		1 1/8		1	8
SFH-1810	1 5/8	1		1 1/8		9
SFH-1810A	1 11/16		1 1/4		1 1/8	9
SFH-1811	1 13/16	1 1/8		1 1/4		10
SFH-1811A	1 7/8				1 1/4	10
SFH-1812	2	1 1/4		1 3/8		11
SFH-1813	2 3/16	1 3/8		1 1/2		12
SFH-1813A	2 1/4				1 1/2	12
SFH-1814	2 3/8	1 1/2				13
SFH-1815	2 9/16	1 5/8				14
SFH-1815A	2 5/8				1 3/4	14
SFH-1816	2 3/4	1 3/4				15
SFH-1817A	3				2	17
SFH-1817	3 1/8	2				17



ENGINEERS' PATTERN

15° Angle, Single Head

Drop-forged from Selected Alloy Steel, heat-treated and chrome-plated over nickel, head faces buffed bright.

Handle can be offset above head at angles of 45° to 90° from opening at an additional charge.



No.	Nominal Opening	U. S. Std. Nut; Size Bolt	Hex Head Cap Screw; Diameter Screw	For S.A.E. Std. Nut; Size Bolt	American Std. Nut, Regular and Jam; Size Bolt	Thickness Head
1000	5/16	1/8	1/8	.....	.....	7/32
1700	3/8	.....	3/16	.....	.....	1/4
1000A	13/32	3/16	.....	.....	.....	1/4
1701	7/16	.....	1/4	1/4	1/4	9/32
1001	1/2	1/4	5/16	5/16	.....	9/32
1702	9/16	.....	3/8	3/8	5/16	5/16
1002	19/32	5/16	.....	.....	.....	5/16
1703	5/8	.....	7/16	7/16	3/8	11/32
1003	11/16	3/8	.....	.....	.....	11/32
1704	3/4	.....	1/2	1/2	7/16	3/8
1004	25/32	7/16	.....	.....	.....	3/8
1705	13/16	.....	9/16	.....	1/2	7/16
1005	7/8	1/2	5/8	9/16	9/16	7/16
1006	15/16	9/16	.....	5/8	.....	1/2
1706	1	.....	3/4	.....	5/8	1/2
1007	1 1/16	5/8	.....	3/4	.....	9/16
1707	1 1/8	.....	7/8	.....	3/4	9/16
1008	1 1/4	3/4	.....	7/8	.....	21/32
1008A	1 5/16	.....	1	.....	7/8	21/32
1009	1 7/16	7/8	.....	1	.....	23/32
1709	1 1/2	.....	1-1/8	.....	1	23/32
1010	1 5/8	1	.....	1-1/8	.....	25/32
1010A	1 11/16	.....	1-1/4	.....	1-1/8	25/32
1011	1 13/16	1-1/8	.....	1-1/4	.....	7/8
1011A	1 7/8	.....	.....	.....	1-1/4	7/8
1012	2	1-1/4	.....	1-3/8	.....	15/16
1012A	2 1/16	.....	.....	.....	1-3/8	15/16
1013	2 3/16	1-3/8	.....	1-1/2	.....	1
1013A	2 1/4	.....	.....	.....	1-1/2	1
1014	2 3/8	1-1/2	.....	.....	.....	1 1/16
1014A	2 7/16	.....	.....	.....	1-5/8	1 1/16

OPEN-END "SUPERRENCHES"

WILLIAMS

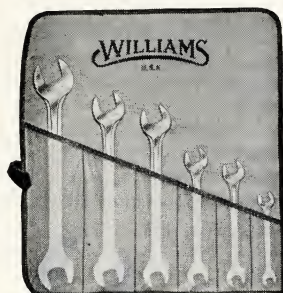
NEW STREAMLINED DESIGN 15° Angle, Double Head Open-End

A redistribution of weight has created exceptional balance so important to the mechanic. Slimmer heads, longer and narrower handles make these wrenches more serviceable where clearance is limited.

The selected alloy steel from which these "Superrenches" are drop-forged assures ample strength for the severest service. Finish is chrome plate over nickel with faces polished bright.

No.	Nominal Openings	For U. S. Std. Nuts Size Bolts	Hex Head Cap Screws; Diameter Screws	For S.A.E. Std. Nuts and Cap Screws; Size Bolts	American Std. Nuts Regular and Jam; Size Bolts	Thickness Heads
A1020	1/4 & 5/16	1/8	1/8			5/32
A1720	5/16 & 11/32	1/8	1/8 & 3/16			5/16
A1721	5/16 & 13/32	1/8	1/8			15/64
A1021	5/16 & 13/32	1/8 & 3/16	1/8 & 1/4			13/64
A1723	3/8 & 7/16	3/8	1/2	1/4	1/4	7/32
A1023	15/32 & 1 1/2	3/8 & 1/4	13/16 & 5/16	5/16		7/32
A1723A	3/8 & 1 1/2	3/8	1 1/4	5/16		7/32
A1725	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1725A	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1725B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1025	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1727	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1027C	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1027	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1027B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1028	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1028S	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1729	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1029B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1029	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1029C	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1030	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1731	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1731A	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1031B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1031	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1731B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1032B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1033A	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1733	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1033C	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1034	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1034A	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1035	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1735	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1036B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1037	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1737	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1037A	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1039B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1039	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1039A	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1039C	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1040	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1041	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32
A1041B	7/16 & 1 1/2	7/16	1 1/4 & 5/16	1/4 & 5/16	1/4	7/32



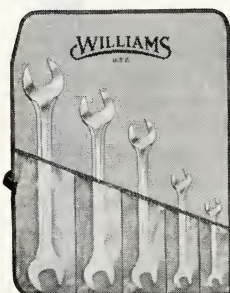


SET No. A1025A

In Leatherette Roll

In Cardboard Box

Set consists of 6 Engineers' Pattern "Superrenches", 1 each Nos. A1723, A1025, A1727, A1029, A1731A and A1033C with openings $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{19}{32}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{25}{32}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{15}{16}$ and $1"$. Lengths, $4\frac{7}{8}$ to $10\frac{7}{8}"$.

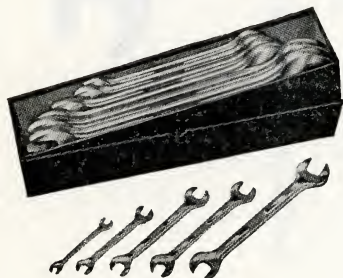


SET No. A1005S

In Leatherette Roll

In Cardboard Box

Set consists of 5 Engineers' Pattern "Superrenches", 1 each Nos. A1725, A1727, A1731A, A1033C and A1037 with openings, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{15}{16}$, 1 , $1\frac{1}{16}$ and $1\frac{1}{4}"$. Lengths, $5\frac{5}{8}$ to $12\frac{3}{4}"$.



SET No. A1712A

Complete in Cardboard Box

Contains 11 Engineers' Pattern "Superrenches", 1 each Nos. A1020, A1723, A1025, A1727, A1029, A1731, A1033A, A1735, A1037, A1039A and A1039C with openings, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{19}{32}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{25}{32}$, $\frac{3}{4}$, $\frac{13}{16}$, $\frac{7}{8}$, $\frac{15}{16}$, 1 , $1\frac{1}{8}$, $1\frac{1}{16}$, $1\frac{1}{4}$, $1\frac{5}{16}$, $1\frac{1}{2}$, $1\frac{3}{8}$ and $1\frac{7}{16}"$. Lengths, $4\frac{1}{2}$ to $14"$.

'SUPERJUSTABLE' WRENCHES

WILLIAMS

Williams' "Superjustable" Wrenches with thin, tapered jaws, are drop-forged from the finest grade of Selected Alloy Steel obtainable for the purpose. "Superjustables" are thinner and lighter, yet stronger and tougher than conventional carbon steel adjustable wrenches of similar capacity. They are second to no other alloy steel adjustable wrenches in appearance, strength and durability.

The exclusive design of the square shoulders on the shank portion of the sliding jaw provide maximum and positive bearing against working stress. They eliminate entirely the wedging and spreading action, inevitable in wrenches having a cylindrical bearing at this point. The shoulders also permit a thicker "web" on the jaw, for added strength, without increasing the thickness of the wrench head. The net result is a sliding jaw with maximum resistance to breakage.

All parts are carefully machined to extremely close limits, assuring the accurate fit essential in wrenches of this class. Heat-treatment in recording electric furnaces of the latest type insures uniformity of product and tough, dependable strength.

Attractively finished in chrome-plate over nickel, with highly polished face; the handle is in "satin" finish. Individually packed.



Size, Inch.	Capacity	Thickness Head		Extra Parts			
		Tip of Jaws	Ex- treme	Jaw	Knurl	Pin	Spring
4	1/2	9/64	5/16	.....	.....	.....	.....
6	3/4	7/32	3/8	.....	.....	.....	.....
8	15/16	17/64	1/2	.....	.....	.....	.....
10	1-1/8	23/64	19/32	.....	.....	.....	.....
12	1-5/16	15/32	23/32	.....	.....	.....	.....
15	1-3/4	19/32	31/32	.....	.....	.....	.....
18	2-1/16	23/32	1-3/16	.....	.....	.....	.....
24	2-7/16	7/8	1-3/8	.....	.....	.....	.....



EXTRA LONG, THIN TAPPET PATTERN

15° Angle, Single Head

All auto mechanics will want these extra long (15") Tappet Wrenches for convenient reach over hot manifolds. Slender and light for easy adjustment, with narrow jaws for close places. The range of openings— $\frac{3}{8}$ to $\frac{5}{8}$ "—provides comprehensive service for practically every make of car, including late models. All heads $\frac{3}{16}$ " thick. Sold individually and in sets. Drop-forged from Selected Alloy Steel, heat-treated, cadmium plated. For Sets, see opposite page.

No.	Nominal Opening	Amer. Std. Hex Head Cap Screw	Amer. Std. LIGHT Nut (S.A.E.)	Amer. Std. REGULAR Nut
A100C	$\frac{3}{8}$	$\frac{3}{16}$	.....	.....
A100	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
A100A	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{5}{16}$	.....
A100B	$\frac{9}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{5}{16}$
A101	$\frac{5}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{3}{8}$



TAPPET PATTERN

15° Angle, Double Head

Specially designed for tappet adjustment. Drop-forged from Selected Alloy Steel, heat-treated and chrome-plated over nickel, head faces buffed bright. For sets see opposite page.

No.	Openings and Tappet Sizes	Extreme Length, Approx.	Thickness Heads
1090A	$\frac{3}{8}$ & $\frac{7}{16}$	8	$\frac{5}{32}$
1090	$\frac{7}{16}$ & $\frac{1}{2}$	8	$\frac{5}{32}$
1090G	$\frac{7}{16}$ & $\frac{17}{32}$	8	$\frac{5}{32}$
1090D	$\frac{1}{2}$ & $\frac{9}{16}$	8	$\frac{5}{32}$
1092	$\frac{9}{16}$ & $\frac{5}{8}$	8	$\frac{3}{16}$
1092F	$\frac{5}{8}$ & $\frac{11}{16}$	8	$\frac{3}{16}$
1094G	$\frac{3}{4}$ & $\frac{13}{16}$	9	$\frac{7}{32}$
1094	$\frac{3}{4}$ & $\frac{7}{8}$	9	$\frac{7}{32}$
1096	$\frac{15}{16}$ & 1	9	$\frac{7}{32}$

TAPPET "SUPERRENCH" SETS

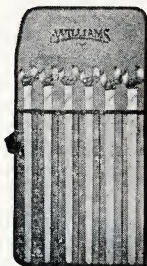
WILLIAMS

SET No. 106

In Leatherette Roll

In Cardboard Box

Set consists of 6 Tappet Pattern "Superrenches", 2 each of Nos. A-100A, A-100B and A-101 with 1/2, 9/16 and 5/8" openings.

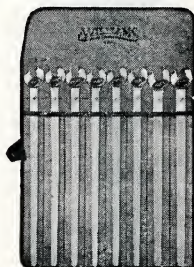


SET No. 108

In Leatherette Roll

In Cardboard Box

Set consists of eight Tappet Pattern "Superrenches", 2 each Nos. A-100, A-100A, A-100B, A-101; 7/16, 1/2, 9/16, and 5/8" openings.

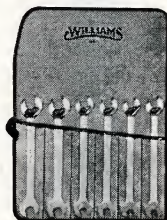


SET No. 1032

In Leatherette Roll

In Cardboard Box

Contains six Tappet Pattern "Superrenches", 2 of each Nos. 1090, 1090D and 1092F, covering every tappet size from 7/16 to 11/16"; services 80% of all cars, buses and trucks.

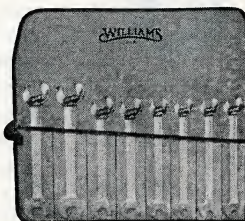


SET No. 1042

In Leatherette Roll

In Cardboard Box

Includes 8 Tappet Pattern "Superrenches", 2 each of Nos. 1090, 1090D, 1092F and 1094. Covers every tappet size from 7/16 to 7/8". An ideal set for the automobile mechanic.



OPEN END-BOX PATTERN

These long, slender "Superrenches", combining two styles of head, are designed especially for use in close quarters.

Open end is thin, with slim jaws and opening at angle of 15°—the most efficient ever devised for this type of wrench-head.

Box end, with 12-point opening and thin walls, is offset from plane of handle; see illustration.

Same size opening in both heads; **where one can not operate, the other will.** Each rotates hex nuts when the wrench can swing only 30°—less than 1/10 of a full turn.

Drop-forged from tough Selected Alloy Steel, heat-treated and chrome-plated with faces of open end buffed bright.



No.	Nominal Openings	U. S. Std. Nuts	Hex Cap Screws	S.A.E. Std. Nuts	Amer. Std. Nuts	Length, Approx.
1158	1/4 & 1/4	.....	.....	.....	*No. 4	3-5/8
1159	5/16 & 5/16	1/8	1/8	.....	.....	4-3/8
1159A	11/32 & 11/32	.....	.....	.....	*No. 8	4-3/8
1160	3/8 & 3/8	.....	3/16	.....	.....	5
1161	7/16 & 7/16	.....	1/4	1/4	1/4	5-3/8
1162	1/2 & 1/2	1/4	5/16	5/16	.....	6
1163	9/16 & 9/16	.....	3/8	3/8	5/16	6-3/4
1163A	19/32 & 19/32	5/16	.....	.....	.....	6-3/4
1164	5/8 & 5/8	.....	7/16	7/16	3/8	7-5/8
1165	11/16 & 11/16	3/8	.....	.....	.....	8-1/2
1166	3/4 & 3/4	.....	1/2	1/2	7/16	9-1/2
1166A	25/32 & 25/32	7/16	.....	.....	.....	9-1/2
1167A	13/16 & 13/16	.....	9/16	.....	1/2	10-1/2
1167	7/8 & 7/8	1/2	5/8	9/16	9/16	10-1/2
1168	15/16 & 15/16	9/16	.....	5/8	.....	13
1170	1 & 1	.....	3/4	.....	5/8	13
1171	1-1/16 & 1-1/16	5/8	.....	3/4	.....	15
1172	1-1/8 & 1-1/8	.....	7/8	.....	3/4	15
1173	1-1/4 & 1-1/4	3/4	.....	7/8	.....	18
1174	1-5/16 & 1-5/16	.....	1	.....	7/8	18
1176A	1-3/8 & 1-3/8	.....	.....	.....	.....	21
1176	1-7/16 & 1-7/16	7/8	.....	1	.....	21
1178	1-1/2 & 1-1/2	.....	1-1/8	.....	1	23
1180	1-5/8 & 1-5/8	1	.....	1-1/8	.....	25

* Amer. Std. Machine Screw and Stove Bolt Nuts.

OPEN END-BOX "SUPERRENCH" SETS

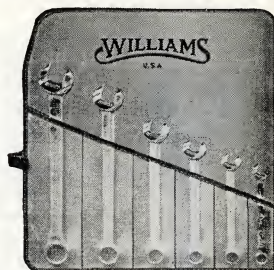
WILLIAMS
U.S.A.

SET No. 1170S

In Leatherette Roll

In Cardboard Box

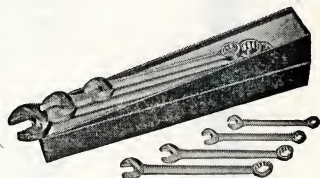
Set contains 6 Open End-Box Pattern "Superrenches", 1 each Nos. 1161, 1162, 1163, 1164, 1166 and 1167 with openings, 7/16, 1/2, 9/16, 5/8, 3/4 and 7/8". Lengths, 5-3/8 to 10-1/2".



SET No. 1171S

Complete in Cardboard Box

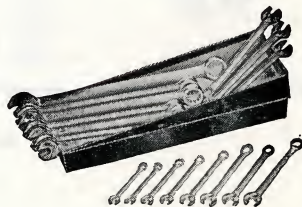
Set consists of 7 Open End-Box Pattern "Superrenches", 1 each Nos. 1162, 1163A, 1165, 1166A, 1167, 1171 and 1173 with openings, 1/2, 19/32, 11/16, 25/32, 7/8, 1-1/16 and 1-1/4". Lengths, 6 to 18".



SET No. 1172S

Complete in Cardboard Box

Contains 18 Open End-Box Pattern "Superrenches", 1 each Nos. 1159 to 1173 inclusive with openings, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 7/8, 13/16, 15/16, 1, 1-1/16, 1-1/8 and 1-1/4". Lengths, 4-3/8 to 18".



SET No. 1173S

In Leatherette Roll

In Cardboard Box

Set contains 7 Open End-Box Pattern "Superrenches", 1 each Nos. 1159, 1159A, 1160, 1161, 1162, 1163 and 1164 with openings, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16 and 5/8". Lengths, 4-3/8 to 7-5/8".



FLARE NUT "SUPERRENCHES"



Long and slender, these "Superrenches", combine two styles of head. They are designed especially for use on the non-ferrous flare nuts and fittings found on hydraulic and pneumatic tubing assemblies such as are encountered in air conditioning, automotive, aeronautical, diesel, marine and refrigeration work. Open-box end, has a 12-point opening offset 15° from plane of handle with a tube opening slot at 22-1/2° to the axis of the handle. Thick head face is an assurance against marred fittings in final tightening.

Open end is thin, with slim jaws and opening at angle of 15°. Designed especially for holding non-ferrous union fittings found in tubing work and fast adjustment of flare nuts before final tightening. Same size opening in both heads. Drop-forged from Selected Alloy Steel, heat-treated and chrome-plated, heads buffed.

No.	OPEN END		OPEN BOX END				Ex-treme Length Approx.
	Nomi-nal Open-ing	Thick-ness Head	Nomi-nal Open-ing	Outside Diam.	Thick-ness Head	Max. Tube Clear-ance	
1312	3/8	3/16	3/8	21/32	5/16	1/4	5 5/8
1314	7/16	13/64	7/16	25/32	11/32	9/32	6
1316	1/2	7/32	1/2	29/32	7/16	3/8	6 3/8
1318	9/16	15/64	9/16	31/32	7/16	7/16	6 7/8
1320	5/8	1/4	5/8	1 1/64	1/2	15/32	7 5/8
1322	11/16	5/16	11/16	1 9/32	9/16	9/16	8 3/4
1324	3/4	5/16	3/4	1 9/32	9/16	9/16	8 3/4
1328	7/8	11/32	7/8	1 7/16	5/8	11/16	9 1/4
1332	1	3/8	1	1 19/32	11/16	3/4	9 7/8
1334	1 1/16	7/16	1 1/16	1 25/32	3/4	27/32	10 3/4
1336	1 1/8	7/16	1 1/8	1 25/32	3/4	27/32	10 3/4

6-POINT BOX MIDGET "SUPERRENCHES"

SET No. 1154S

In Leatherette Roll

In Cardboard Box



Contains 4 Midget Box "Superrenches" Nos. 1150, 1151, 1152 and 1153.

These midget box wrenches are ideal for carburetor, electrical and ignition work. Offset design clears small obstructions where working space is limited. Forged from Selected Alloy Steel, heat-treated and chrome-plated, heads buffed bright.

No.	Nominal Openings	Extreme Length
1150	3/16 & 13/64	2 7/8
1151	7/32 & 15/64	3 1/8
1152	1/4 & 9/32	3 3/8
1153	5/16 & 11/32	3 3/4

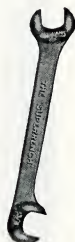
MIDGET "SUPERRENCHES"

WILLIAMS

MIDGET "SUPERRENCHES"

These wrenches are unusually thin and slim, but surprisingly tough and strong. Forged from Selected Alloy Steel, heat-treated and chrome-plated over nickel, head faces buffed bright.

No.	Nominal Openings	Extreme Length	Thickness Heads
15° ANGLE OPENING			
1106	13/64 & 7/32	3	3/32
1107	15/64 & 1/4	3	3/32
1108	9/32 & 11/32	3-1/2	1/8
1108A	1/4 & 5/16	3-1/2	1/8
1109	5/16 & 3/8	3-1/2	1/8
15 and 75° ANGLE OPENING			
1112	3/16 & 3/16	3	3/32
1113	13/64 & 13/64	3	3/32
1114	7/32 & 7/32	3	3/32
1115	15/64 & 15/64	3	3/32
1116	1/4 & 1/4	3	3/32
1118	9/32 & 9/32	3-3/4	1/8
1120	5/16 & 5/16	3-3/4	1/8
1122	11/32 & 11/32	3-3/4	1/8
1124	3/8 & 3/8	3-3/4	1/8
1128	7/16 & 7/16	4-1/2	5/32
1132	1/2 & 1/2	4-1/2	5/32



SET No. 1149P

With 1519 "Superplier"
In Leatherette Roll
In Cardboard Box

SET No. 1149

Without 1519 "Superplier"
In Leatherette Roll
In Cardboard Box

Handy assortment of 5 Midget "Superrenches" Nos. 1106, 1107, 1108, 1108A, 1109 and 1519 "Superplier".



SET No. 1141P

In Leatherette Roll
In Cardboard Box

Contains 11 Midget "Superrenches" Nos. 1112, 1113, 1114, 1115, 1116, 1118, 1120, 1122, 1124, 1128, 1132 and 1519 Midget "Superplier".



CONSTRUCTION WRENCHES

15° Angle



Particularly serviceable on heavy automotive work requiring long leverage, such as Anchor Nuts, Bendix Brakes—Axle-shaft Nuts—Bumper Bolts and Nuts, Bus and Truck—Frame Members—King-bolts and Nuts—Springclip ("U" Bolt) Nuts—Spring-shackle Bolts and Nuts—Tire and Luggage-carrier Bolts and Nuts, Bus and Truck—etc., etc.

These wrenches also meet the needs of structural workers efficiently. The slim design provides ample strength and leverage without unnecessary weight and bulk. Substantial bearing on square nuts.

The long handle is round for the greater part of its length, with tapered end for easy insertion into bolt holes when bringing them into line.

Drop-forged from Selected Alloy Steel, heat-treated and finished in baked gray enamel all over.

No.	Nominal Opening	For U. S. Std. Nut; Size Bolt	S.A.E. Std. Nut & Cap Screw	American Standard Regular Nut; Size Bolt	Extreme Length, Approx.
1205	7/8	1/2	9/16	9/16	14 1/2
1206B	1	.....	11/16	5/8	14 1/2
1207	1 1/16	5/8	3/4	.....	17
1207A	1 1/8	.....	.....	3/4	17
1208	1 1/4	3/4	7/8	.....	19
1208A	1 5/16	.....	.....	7/8	19
1209	1 7/16	7/8	1	.....	21
1209A	1 1/2	.....	.....	1	21
1210	1 5/8	1	1 1/8	.....	23
1211	1 13/16	1 1/8	1 1/4	.....	25
1212	2	1 1/4	1 3/8	.....	25

15° ANGLE CONSTRUCTION WRENCHES

45° BENT HANDLE

Drop-forged from selected alloy steel, heat-treated and finished in baked gray enamel all over.

No.	Nominal Opening	For U. S. Std. Nut; Size Bolt	For S.A.E. Std. Nut and Cap Screw	For Amer. Std. Reg. Nut; Size Bolt	Extreme Length, Approx.
X-1205	7/8	1/2	9/16	9/16	14
X-1206B	1	5/8	11/16	5/8	14
X-1207	1 1/16	5/8	3/4	3/4	16 1/2
X-1207A	1 1/8	3/4	7/8	3/4	16 1/2
X-1208	1 1/4	3/4	7/8	3/4	18 1/2
X-1209	1 7/16	7/8	1	1	20 3/8
X-1209A	1 1/2	7/8	1	1	20 3/8
X-1210	1 5/8	1	1 1/8	1	22 1/4
X-1211	1 13/16	1 1/8	1 1/4	1 1/4	24
X-1212	2	1 1/4	1 3/8	1 3/8	24



15° ANGLE CONSTRUCTION WRENCHES

90° BENT HANDLE

Drop-forged from selected alloy steel, heat-treated and finished in baked gray enamel all over.

No.	Nominal Opening	For U. S. Std. Nut; Size Bolt	For S.A.E. Std. Nut and Cap Screw	For Amer. Std. Reg. Nut; Size Bolt	Extreme Length, Approx.
Z-1205	7/8	1/2	9/16	9/16	12
Z-1206B	1	5/8	11/16	5/8	12
Z-1207	1 1/16	5/8	3/4	3/4	14 5/8
Z-1207A	1 1/8	3/4	7/8	3/4	14 5/8
Z-1208	1 1/4	3/4	7/8	3/4	16 3/8
Z-1209	1 7/16	7/8	1	1	17 7/8
Z-1209A	1 1/2	7/8	1	1	17 7/8
Z-1210	1 5/8	1	1 1/8	1 1/8	19 1/2
Z-1211	1 13/16	1 1/8	1 1/4	1 1/4	21
Z-1212	2	1 1/4	1 3/8	1 3/8	21



STRUCTURAL WRENCHES

Straight Opening



Made especially to meet the needs of structural workers; the slim design provides ample strength and leverage without unnecessary weight and bulk.

The long, narrow jaws provide substantially full bearing on square nuts. The round handle has tapered end for easy insertion into bolt holes when aligning same.

The abrupt offset and angle of handle provide for clearance of obstructions and safety to the operator's hands. The wrench is particularly well balanced. When thrust into scabbard or belt-loop, the "step-up" of the round above the flat part of handle acts as a stop, yet is readily released.

Drop-forged from Selected Alloy Steel, heat-treated and finished in baked gray enamel all over.

No.	Nominal Opening	For U.S. Std. Nut; Size Bolt	For Amer. Std. Regular Nut	Extreme Length, Approx.	Thickness Head	Handle Offset	
						At Head	At End
1905	7/8	1/2	9/16	14-1/2	17/32	1	1- 7/8
1906B	1	.....	5/8	14-1/2	17/32	1	1- 7/8
1907	1- 1/16	5/8	.....	17	5/8	1-1/8	2- 3/8
1907A	1- 1/8	.....	3/4	17	5/8	1-1/8	2- 3/8
1908	1- 1/4	3/4	.....	19	11/16	1-1/4	2- 3/4
1908A	1- 5/16	.....	7/8	19	11/16	1-1/4	2- 3/4
1909	1- 7/16	7/8	.....	21	3/4	1-3/8	3- 1/16
1909A	1- 1/2	.....	1	21	3/4	1-3/8	3- 1/16
1910	1- 5/8	1	.....	23	13/16	1-1/2	3- 3/8
1910A	1-11/16	.....	1-1/8	23	13/16	1-1/2	3- 3/8
1911	1-13/16	1-1/8	.....	25	7/8	1-5/8	3-11/16
1911A	1- 7/8	.....	1-1/4	25	7/8	1-5/8	3-11/16
1912	2	1-1/4	.....	25	7/8	1-5/8	3-11/16

"SUPERSOCKET" WRENCH SETS

WILLIAMS

EXTRA HEAVY DUTY PATTERN, 1" SQUARE DRIVE

SET No. NX-1—In Metal Case

Total Weight, 78-3/4 lbs.

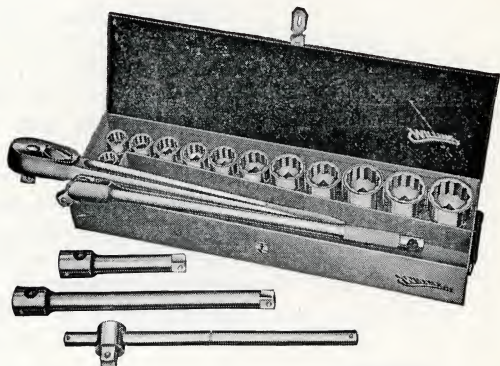
Case Only

4-1/4 x 8 x 29-1/4"

Weight, 17 lbs.

Contains 12 "Supersockets" with 12-point openings, 1-1/16, 1-1/8, 1-1/4, 1-7/16, 1-1/2, 1-5/8, 1-13/16, 1-7/8, 2, 2-3/16, 2-1/4 and 2-3/8".

6 Attachments—Sliding Handle and Adapter, Flex Handle, Reversible Ratchet and 2 Extension Bars.



SET No. NX-2—In Metal Case

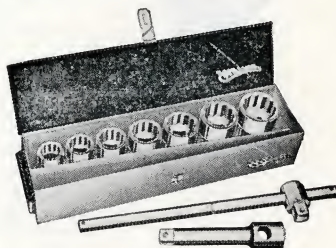
Total Weight, 35-1/8 lbs.

Case Only—4-1/4 x 5-1/4 x 20-3/4"

Weight, 10-1/8 lbs.

Contains 7 "Supersockets" with 12-point openings, 1-1/4, 1-7/16, 1-5/8, 1-13/16, 2, 2-3/16 and 2-3/8".

3 Attachments—Sliding Handle, Adapter and Extension Bar.



SET No. NX-3—In Metal Case

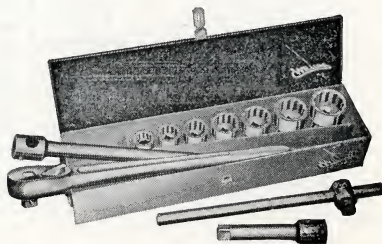
Total Weight, 57-1/4 lbs.

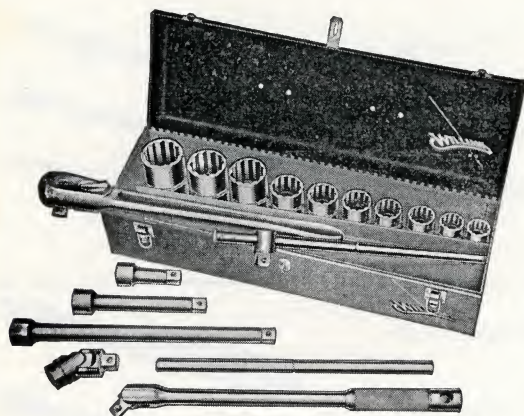
Case Only—4-1/4 x 6-1/2 x 26"

Weight, 13-1/2 lbs.

Contains 7 "Supersockets" with 12-point openings, 1-1/4, 1-7/16, 1-5/8, 1-13/16, 2, 2-3/16 and 2-3/8".

5 Attachments,—Sliding Handle and Adapter, Reversible Ratchet and 2 Extension Bars.





SET No. H-3—In Metal Case

Total Weight, 41-1/8 lbs.

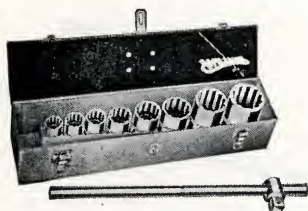
Case Only

5-3/8 x 7-1/2 x 23-1/4"

Weight, 7-1/2 lbs.

Contains 10 "Supersockets" with 12-point openings, 1-1/16, 1-1/8, 1-1/4, 1-5/16, 1-7/16, 1-1/2, 1-5/8, 1-13/16, 1-7/8 and 2".

8 Attachments—Sliding T Handle, Flex Handle and Bar, Reversible Ratchet, 3 Extension Bars and Universal Joint.



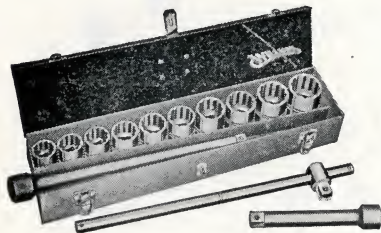
SET No. H-1—In Metal Case

Total Weight, 14-7/8 lbs.

Case Only—5-3/8 x 4 x 18"

Weight, 4-1/2 lbs.

Contains 8 "Supersockets" with 12-point openings, 7/8, 31/32, 1-1/16, 1-1/4, 1-7/16, 1-5/8, 1-13/16, 2" and H-20A Sliding T Handle.



SET No. H-2—In Metal Case

Total Weight, 20-3/4 lbs.

Case Only—2-3/4 x 4-1/2 x 19-3/4"

Weight, 4-3/4 lbs.

Contains 10 "Supersockets" with 12-point openings, 1-1/6, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-5/8 and 1-3/4".

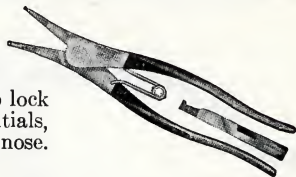
3 Attachments—Sliding T Handle and 2 Extension Bars.

"SUPERRENCHES" FOR BRAKE SERVICE **WILLIAMS**

No. 1515

Lock Ring Pliers—For Snap Lock Rings

Pliers are designed for spreading "Horse Shoe" snap lock rings on automotive brakes, transmissions, differentials, pulleys, etc. Finish, gun metal blue handles with polished nose. Length, 8".



No. 1983

For Eccentric Adjustments

Openings, 3/16 & 1/4", Length, 9", Thickness Heads, 1 1/4".

For use on Eccentric Cam, Lockheed Hydraulic and Bendix mechanical Brakes.

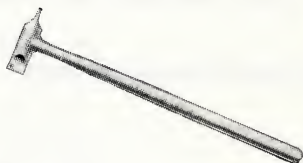


No. 1997

For Slotted Anchor Pins, Etc.

Length, 6". Blade Tips, 1/16 x 13/32".

For slotted anchor pins, drag links, steering post and other jobs where regular screw drivers cannot be used. Also excellent as a glazier's tool.

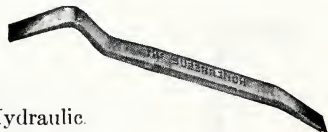


No. 1998B

For Star Nut, Etc.—Bendix Hydraulic

Length, 8". Blade Tips, 5/64 x 15/32".

Offset to service Star Nut Eccentric, all Bendix Hydraulic.



No. 1984X

For Adjusting Ford Mechanical Brakes

8-Point Openings, 7/16 & 1/2". Length, 11-1/4".

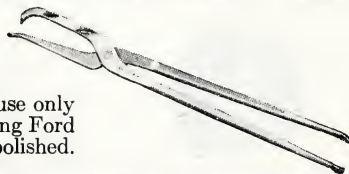
The only wrench required for adjusting brakes on Ford "A", "B", all V-8, 1932-'38; also Ford "AA" and all V-8 trucks, 1932-'38.



No. 1517

For Brake-Shoe Springs

For inserting and removing springs (internal). For use only on passenger cars and light and medium trucks excepting Ford "A". Length, 13". Gray satin finish; faces of head polished.



No. SV-244

For Ford 6, V-8, Mercury and Lincoln Distributors



1/2 & 1 1/2" 12-Point Openings, 9" long, Offset, 2-1/4"

Specially offset to clear fan-belt. A big time saver in servicing distributors on Ford 6, 1941-'47; V-8, 1937-'48; Mercury, 1939-'48; Lincoln Zephyr, 1937-'42; and Lincoln, 1946-'48. Forged from Selected Alloy Steel, heat-treated, chrome-plated.

No. 1966-A

For Ford and Mercury Crankcase Drain Plugs



2" 12-Point Openings—11" long

For drain plug on all 1939-'48 Ford V-8 and Mercury cars. Forged from Selected Alloy Steel, heat-treated, chrome-plated

No. S-243

For Ford V-8 60 H.P. Motor, 1937-'40 Main Bearings



6-Pt. Openings, 21/32 and 21/32"; Offset, 3"; 11-1/2" long

Special thin design sockets for all main bearing screws. Also connecting rod nuts on all Ford models "A", "B" and "T". Forged from Selected Alloy Steel, heat-treated, chrome-plated

No. S-231 and 1981-A

For All Connecting Rods

3" Offset, 11-1/2" long

Spin nuts till engaged (short arm for lever); reverse wrench and tighten (long arm for lever).

Special thin design Sockets to handle clearance problem. Forged from Selected Alloy Steel, heat-treated, chrome-plated.



No. S-231

6-Pt. Openings, 7/16". For Ford V-8 60 H.P. motor, 1937-'40.

No. 1981-A

6-Point Openings, 9/16 and 9/16". Services all Ford 6, all Ford V-8 (except 60 H.P.) and all Mercury connecting rod nuts. Very handy for manifold nuts and valve cap covers.

No. V-132

1-3/8" 6-Point Opening

Services all Ford cars and trucks 1928-'37; all Ford trucks 1938-'42, 1946. Cut away for clearance.



Services lower fan-pulley nut, necessary in dropping oil pan, without removing radiator. Designed for use with Ford starting crank. Selected Alloy Steel, heat-treated, cadmium-plated.

No. 1960

For Starter and Manifold Nuts

12-Point Openings, 9/16 and 5/8"—Length, 7"

For starter and manifold nuts. All models Chrysler and Dodge; DeSoto and Plymouth. Also useful for starters and manifolds on many other passenger automobiles. Drop-forged from Selected Alloy Steel, heat-treated, chrome-plated.



No. 1961

For Chevrolet Starter Nuts

12-Point Openings, 5/8 and 3/4"—Length, 7-1/2"

For starter nuts on all models Chevrolet 1930 to 1948. Also useful for starters on many other passenger automobiles. Drop-forged from Selected Alloy Steel, heat-treated, chrome-plated.

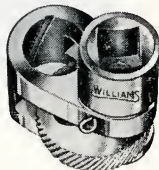


No. S-60B

Stud Remover

This Stud Remover is designed for use with 1/2" square drive handles and attachments. It is equally efficient for removing or setting studs.

Eccentrically mounted roller with deep milled edges provides a non-slipping, gripping surface which is non-burring. Stud capacity, 1/4 to 3/4" diameter. Made from Selected Alloy Steel, heat-treated and chrome-plated.



* No. SF-618

9/16" 6-Point Opening

* No. SF-1218

9/16" 12-Point Opening

1/2" Square Drive

For Ford Cars and Trucks

For all Ford 6, Ford-Mercury V-8, 85 H.P., 90 H.P. and 100 H.P. Connecting Rods. Use with Torque Wrench required on models having "Marsden" self-locking nuts.

Heat-treated and Chrome-plated.

* Not guaranteed because of extra thin walls.



No. SC-614

For Cadillac Connecting Rod

1/2" Square Drive—7/16" 6-Point Opening.

The Cadillac Connecting Rod Nut requires an unusually strong socket for servicing. Services all models Cadillacs, 1937-1948. Made from Selected Alloy Steel, heat-treated and chrome-plated. Length, 3-1/8".



AUTOMATIC TRANSMISSION SETS

No. ATS-1

In Steel Case

1-3/8 x 3-1/2 x 14-1/4"

Total Weight, 3.8 lbs.

No. ATS-2

On Plywood Panel

1/2 x 9-1/2 x 19"

Total Weight, 4.5 lbs.

These sets were designed to facilitate oil-change work on automatic transmissions such as Hydra-Matic, Dyna-Flo, Power Glide, Ultramatic, Fluid Drive and Studebaker Automatic transmissions. Set may be purchased in metal case or plywood panel as illustrated.

Contents — either set

- B-409 Socket—9/32" Square Opening
- B-1214 Socket—7/16" 12-Point Opening
- B-1216 Socket—1/2" 12-Point Opening
- B-1218 Socket—9/16" 12-Point Opening
- B-1220 Socket—5/8" 12-Point Opening
- B-110 Extension
- B-51 Reversible Ratchet
- 26 6" Round Blade Screw Driver
- 7733 15° Offset Box Wr.—7/8 & 1" Op'gs
- A1725 Open End Wr.—7/16 & 1/2" Op'gs
- 3/16" Hexagon Key Wrench—4-1/2" long



ADJUSTABLE HOOK SPANNERS

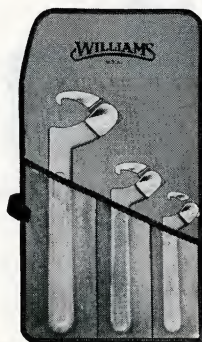
SET No. 1400

In Leatherette Roll

In Cardboard Box

This set is especially serviceable on Exhaust Manifold Gland Nuts, Rear Wheel Bearings, Differential Pinion Gear, Rear Axle Shaft Bearings, Water-Pump Packing Nuts, etc.

Drop-forged from Selected Alloy Steel, heat-treated and chrome-plated, face of jaw and raised part of handle buffed.



No.	Capacity for Circles, Diameter	Extreme Length, Approx.	Thickness		Depth Hook
			Handle	Hook	
1471	3/4 to 2	6-3/8	1/4	11/32	1/8
1472	1-1/4 to 3	8-1/8	9/32	13/32	5/32
1474	2 to 4-3/4	11-3/8	5/16	15/32	3/16

No. 1150 ADJUSTABLE FILE HOLDER

The handle of Williams' Adjustable File Holder may be adjusted to either side or completely reversed and again adjusted to either side, enabling the operator to work close to obstructions without injuring the hand. Although light in weight, Holder is extremely rigid and comfortably balanced. File may be flexed either way to the maximum point of safety against breakage. Before flexing, the bolt which attaches blade at the rear of the Holder should be loosened.



14" STANDARD FLEXIBLE MILLED CURVED-TOOTH FILE

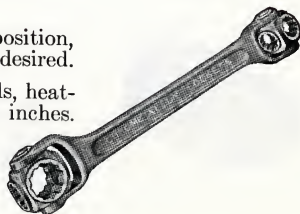
This type of file is most universally used in auto body repair work. Curved teeth are milled on both sides. These files are made from special alloy steel, precision milled and are self clearing. They leave a smooth finish. Designed for use with Williams' Adjustable File Holder No. 1150.

"MULTISOCKET" WRENCH No. 1999 EIGHT-IN-ONE

Swivel heads, with index spring to retain working position, permit handle to be operated at practically any angle desired.

The entire wrench is drop-forged from selected steels, heat-treated and finished in cadmium-plate. Length, 9 inches.

8 Different 12-Point Openings
Small Head; 7/16, 1/2, 9/16, 19/32"
Large Head, 5/8, 11/16, 3/4, 7/8"

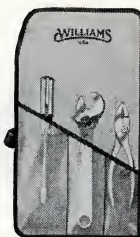


SET No. APS-3

In Leatherette Roll
In Cardboard Box

An ideal set for numerous small jobs around home and office. Also for general automobile use. Convenient size for glove compartment.

Contains one each No. 24 4" Screw Driver with plastic handle, 8 inch "Superjustable" Wrench and No. 6 6" Combination Slip-joint Pliers.





No. 1058 TOE DOLLY

$4\frac{3}{4} \times 2\frac{1}{4} \times 1\frac{1}{16}$ "

Extremely versatile due to its thinness and length. The large flat surface is useful in dinging flat panels and lower hood quarters. Fits many odd curves.



No. 1059 HEEL DOLLY

$3\frac{1}{8} \times 2\frac{3}{8} \times 1\frac{7}{16}$ "

This dolly is designed for use in corners and wide radii.



No. 1060 GENERAL PURPOSE DOLLY

$2\frac{7}{8} \times 2\frac{3}{8} \times 2\frac{1}{4}$ "

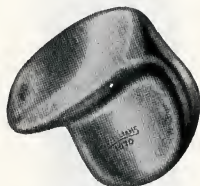
Its unlimited use makes it one of the most popular of all. Its weight and balance assure comfortable seating in the hand. Wide adaptability is achieved through the several differently crowned working surfaces and the two flanging and beading lips.



No. 1068 LOW CROWN DOLLY

$2\frac{3}{4} \times 1\frac{5}{8} \times 4$ "

Made for dinging on low crown panels where other dollies would stretch the metal. Also can be used for flange work. The 90° angle between the low crown face and the sides permits dinging in the furthest recesses of a flanged edge.



No. 1070 HEAVY DUTY DOLLY

$3\frac{5}{8} \times 3\frac{1}{4} \times 2\frac{1}{2}$ "

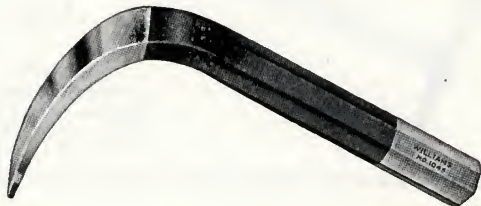
For general heavy duty work. This dolly is recommended for use on heavy gauge fenders and panels. It is particularly adapted for roughing work and for use with air hammers.

No. 1045 LONG TURRET TOP SPOON

Length, 10"

Face, 1-7/8 x 5-1/4 x 3/16"

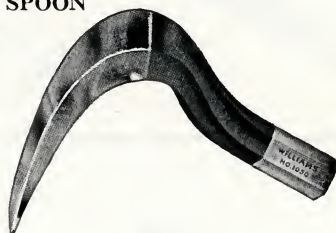
This spoon is used for prying and driving or as an offset dolly for dinging where it can be inserted between outer panel and inner construction. End at blade has a medium caulking face.

**No. 1050 COMBINATION SPOON**

Length, 4-3/4"

Face, 1-3/4 x 5-1/2"

Designed for general use. Its long high crown working surface is ideal for working behind reinforcements on high crown panels such as between fender brackets and fender where it is impossible to use a dolly block.

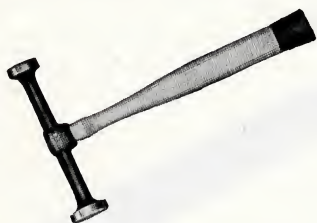
**No. 1054 LONG CURVED SPOON**

Length, 10-1/2"

Face 2 x 7"

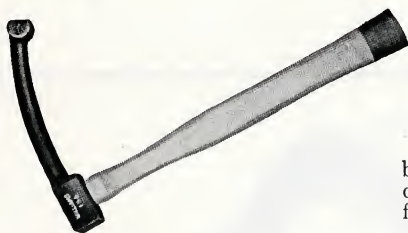
This spoon has a long, thin, curved blade which is handy for prying up dents encountered behind hinge anchors in doors and body pillars, reinforcements in hood tops, radiator shells, header panels, etc.



**No. 150-G****DINGING HAMMER**

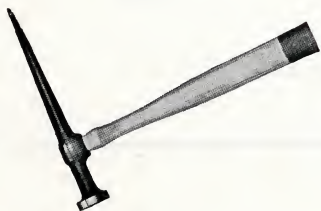
Length, 11-1/2" Weight, 13 oz.

This rugged well balanced hammer is recommended for general bumping and dinging where heavier blows are required. Long head permits dinging over obstructions.

**No. 155****FENDER BUMPER**

Length, 15" Weight, 2 lbs.

A heavy hammer for use in places inaccessible by hand with an ordinary dolly. Designed to clear obstructions when bumping out dents from the inside.

**No. 156-G****FINISHING HAMMER**

Length, 11-1/2" Weight, 9 oz.

Pointed end is used for driving up small dents in low crown and flat panels. The dinging head has a high crown face. Extra long reach permits working over braces and inner construction inside bodies.

**No. 156-GB****CURVED FINISHING HAMMER**

Length, 11-1/2" Weight, 9 oz.

Pointed end is bent to arc of a normal swing, otherwise same as No. 156-G. Curved pointed end allows user to reach in such places as the edge of a roof rail panel and in behind bracing.

No. 158-G

FINISHING HAMMER

Length, 11-1/2" Weight, 9 oz.

While designed for general work it is particularly useful for driving up small low spots when filing. Pick end is well balanced with low crown dinging head.



No. 160-G

BUMPING HAMMER

Length, 11-1/2" Weight, 13 oz.

A heavy duty hammer for straightening braces, reinforcements, floor panels, etc. Well adapted to heavy duty bumping work on body and fender straightening.



No. 161-G

DINGING HAMMER

Length, 11-1/2" Weight, 9 oz.

A light-weight well balanced hammer for light and medium work. Square face is low crowned and round face is high crowned.



No. 164-G

UTILITY HAMMER

Length, 11-1/2" Weight, 7 oz.

Short pick has bullet shaped end for driving up small dents. It is also useful for driving up dents in fenders without removing the wheel and for general dinging on thin gauge metal.



No. 42-H

MAGNETIC TRIMMER'S HAMMER

Length, 11" Weight, 7 oz.

Full polished head is drop-forged from steel selected to retain magnetism. Arc of the head is designed for utmost efficiency in trimming and upholstery work.



MACHINISTS' BALL PEIN HAMMERS



Williams' Ball Pein Hammers are exceptionally well balanced. They are drop-forged from specially selected steel and carefully heat-treated for uniform, dependable strength and hardness. They are built to withstand severe usage.

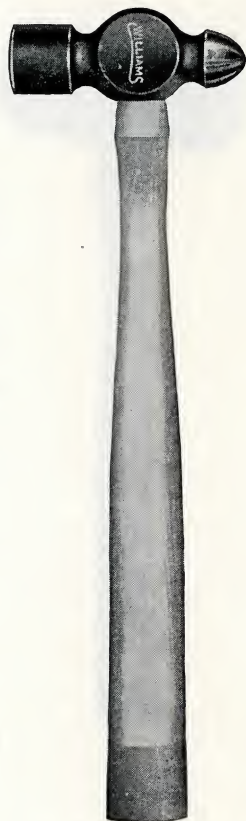
Handles are made from second growth white hickory and clear lacquered. Each handle is carefully fitted and permanently wedged into the head.

No.	Length	Weight
7-0	9-3/4	2 oz.
5-0	9-3/4	1/4 lb.
3-0	11-1/2	1/2 lb.
2-0	13-1/2	3/4 lb.

MACHINISTS' BALL PEIN HAMMERS

These Ball Pein Hammers are drop-forged from specially selected steel. They are carefully heat-treated for uniform, dependable strength and hardness. Williams' Ball Pein Hammers are well balanced and are built to withstand severe service.

Handles are made from second growth white hickory and clear lacquered. Each handle is carefully fitted and permanently wedged into the head.



No.	Length	Weight
0	14	1 lb.
2	14-1/2	1-1/2 lbs.
4	15-1/2	2 lbs.
6	16	2-1/2 lbs.

WILLIAMS' SOFT-FACE HAMMERS

With "Nuplaflex" and Nylon Interchangeable Tips

Williams' Soft-Face Hammers are available with "Nuplaflex," an amazing slow-resiliency, self-healing material, and Nylon interchangeable tips. "Nuplaflex" is highly resistant to oil, gasoline, common industrial solvents and acids. It is non-explosive and electrically non-conductive.

Williams' Soft-Face Hammers equipped with "Nuplaflex" tips are safety tools which minimize the danger of fire, explosion and flying particles. They produce maximum impact with minimum effort—no sting or vibration and minimize marring or damage to painted, polished or plated surfaces. "Nuplaflex" is available in three hardnesses—soft, medium and tough—making it more versatile than conventional type soft face hammers.

"Nuplok" (Pat. Pending) tip locking device is used throughout. All hammers have selected hickory handles. Series 100, 150, 153, 200, 250 and 300 have die-cast aluminum alloy heads with bright finish. Series 105, 155, 205, 207, 255 and 305 have die-cast zinc-alloy heads with bright finish

With Nylon Cross Peen Interchangeable Tip

Nylon Tipped Cross Peen Hammer No. 153-44V is specially designed for peening work in aircraft and automotive assembly and sheet metal work. The long, light-weight head has one wedge-pointed Cross Peen Nylon tip, No. 15-4V and one regular round Nylon tip, No. 15-4.

Nylon Cross Peen Tip No. 15-4V will also fit in Williams Soft-Face Hammers, series 150 and 155. Regular 1-1/2" "Nuplaflex" Tips, Nos. 15-1 to 15-3, as well as Nylon Tip No. 15-4, will fit this new Hammer No. 153.

SOFT-FACE HAMMERS COMPLETE WITH TIPS

No.	Head Diam. Inches	Head Length Inches	Handle Length Inches	Weight	Kind of Tip
100-1	1	3-1/2	11-3/8	5 oz.	Soft
100-2	1	3-1/2	11-3/8	5 oz.	Med.
100-3	1	3-1/2	11-3/8	5 oz.	Tough
100-4	1	3-1/2	11-3/8	5 oz.	Nylon
105-1	1	3-1/2	11-3/8	8 oz.	Soft
105-2	1	3-1/2	11-3/8	8 oz.	Med.
105-3	1	3-1/2	11-3/8	8 oz.	Tough
105-4	1	3-1/2	11-3/8	8 oz.	Nylon
150-1	1-1/2	4-3/8	13	3/4 lb.	Soft
150-2	1-1/2	4-3/8	13	3/4 lb.	Med.
150-3	1-1/2	4-3/8	13	3/4 lb.	Tough
150-4	1-1/2	4-3/8	13	3/4 lb.	Nylon
153-1	1-1/2	7	13	1-1/8 lb.	Soft
153-2	1-1/2	7	13	1-1/8 lb.	Med.
153-3	1-1/2	7	13	1-1/8 lb.	Tough
153-4	1-1/2	7	13	1-1/8 lb.	Nylon
153-44V	1-1/2	7	13	1-1/8 lb.	*Nylon
155-1	1-1/2	4-3/8	13	1-1/4 lb.	Soft
155-2	1-1/2	4-3/8	13	1-1/4 lb.	Med.
155-3	1-1/2	4-3/8	13	1-1/4 lb.	Tough
155-4	1-1/2	4-3/8	13	1-1/4 lb.	Nylon

* Hammer furnished with one regular round and one Cross Peen Tip.

SOFT-FACE HAMMERS

WILLIAMS

SOFT-FACE HAMMERS COMPLETE WITH TIPS

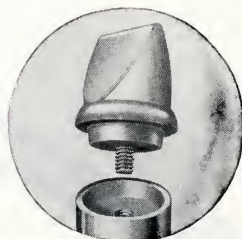
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No.	Head Diam. Inches	Head Length Inches	Handle Length Inches	Weight	Kind of Tip
200-1	2	5	13	1-1/4 lb.	Soft
200-2	2	5	13	1-1/4 lb.	Med.
200-3	2	5	13	1-1/4 lb.	Tough
200-4	2	5	13	1-1/4 lb.	Nylon
205-1	2	5	13	2 lb.	Soft
205-2	2	5	13	2 lb.	Med.
205-3	2	5	13	2 lb.	Tough
205-4	2	5	13	2 lb.	Nylon
207-1	2	6-3/8	15	3 lb.	Soft
207-2	2	6-3/8	15	3 lb.	Med.
207-3	2	6-3/8	15	3 lb.	Tough
207-4	2	6-3/8	15	3 lb.	Nylon
250-1	2-1/2	6-1/4	15	2 lb.	Soft
250-2	2-1/2	6-1/4	15	2 lb.	Med.
250-3	2-1/2	6-1/4	15	2 lb.	Tough
250-4	2-1/2	6-1/4	15	2 lb.	Nylon
255-1	2-1/2	6-1/4	13	4 lb.	Soft
255-2	2-1/2	6-1/4	13	4 lb.	Med.
255-3	2-1/2	6-1/4	13	4 lb.	Tough
255-4	2-1/2	6-1/4	13	4 lb.	Nylon
300-1	3	7	14	3-1/2 lb.	Soft
300-2	3	7	14	3-1/2 lb.	Med.
300-3	3	7	14	3-1/2 lb.	Tough
300-4	3	7	14	3-1/2 lb.	Nylon
305-1	3	7	14	6 lb.	Soft
305-2	3	7	14	6 lb.	Med.
305-3	3	7	14	6 lb.	Tough
305-4	3	7	14	6 lb.	Nylon
*307-2	3	7-7/8	28	9 lb.	Med.
*307-3	3	7-7/8	28	9 lb.	Tough
*307-4	3	7-7/8	28	9 lb.	Nylon
*308-2	3	9	36	12 lb.	Med.
*308-3	3	9	36	12 lb.	Tough
*308-4	3	9	36	12 lb.	Nylon



EXTRA "NUPLAFLEX" AND NYLON TIPS

No.	Head Diam. Inches	Kind of Tip	No.	Head Diam. Inches	Kind of Tip
10-1	1	Soft	20-3	2	Tough
10-2	1	Medium	20-4	2	Nylon
10-3	1	Tough	25-1	2-1/2	Soft
10-4	1	Nylon	25-2	2-1/2	Medium
15-1	1-1/2	Soft	25-3	2-1/2	Tough
15-2	1-1/2	Medium	25-4	2-1/2	Nylon
15-3	1-1/2	Tough	30-1	3	Soft
15-4	1-1/2	Nylon	30-2	3	Medium
15-4V	1-1/2	†Nylon	30-3	3	Tough
20-1	2	Soft	30-4	3	Nylon
20-2	2	Medium			

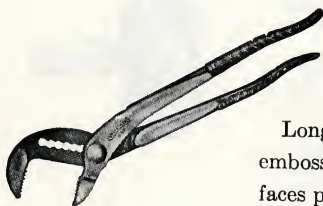


* Head made of steel with rust proof black finish.

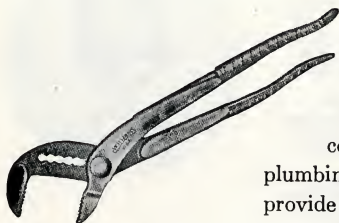
† Cross Peen Tip.

MIDGET "SUPERPLIERS"**No. 1519—Length, 4-1/2"**

4-position joint opens 0 to 9/16", with jaws parallel at the most important openings. Efficient for wiring, panel, switch-board, radio, and other delicate work. Chrome-plated over nickel, faces polished bright.

STANDARD "SUPERPLIERS"**No. 1520—Length, 9-1/2"**

Long and slim; 8-position joint opens 0 to 2". Diamond embossed handles provide firm hand grip. Gray satin finish, faces polished.

HEAVY DUTY "SUPERPLIERS"**No. 1521—Length, 10"**

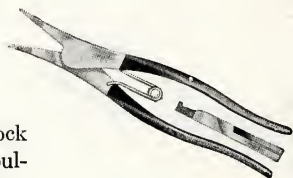
7-position slip-joint opens 0 to 2". Heavy duty construction makes this plier particularly useful in plumbing and electrical trades. Diamond embossed handles provide firm hand grip. Gray satin finish, faces polished.

LOCK RING PLIERS

For Snap Lock Rings

No. 1515—Length, 8"

Pliers are designed for spreading "Horse Shoe" snap lock rings on automotive brakes, transmissions, differentials, pulleys, etc. Finish, gun metal blue handles with polished nose.

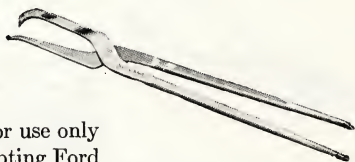


BRAKE PLIERS

For Brake-Shoe Springs

No. 1517—Length, 13"

For inserting and removing springs (internal). For use only on passenger cars and light and medium trucks excepting Ford "A". Gray satin finish; faces of head polished.



BATTERY PLIERS

No. 67—Length, 7"

Offset jaws allow ample hand clearance for battery terminal work. Milled teeth assure positive grip. Drop-forged from selected steel, faces polished.



COMBINATION SLIP-JOINT PLIERS

*No. 5—Length, 5"

No. 6—Length, 6"

No. 8—Length, 8"

No. 10—Length, 10"

These Combination Pliers, with 2-position slip-joints, are very efficient for general service. All are sturdy, well designed tools. Drop-forged from selected steel, with knurled handles, polished and nickel-plated.

**THIN NOSE COMBINATION
SLIP-JOINT PLIERS**

No. 15—Length, 5"

No. 16—Length, 6"

These thin nose pliers, with 2-position slip-joints, are very efficient for close-quarters work. They are sturdy, well designed tools. Drop-forged from selected steel, with knurled handles; polished and nickel-plated.

**COMBINATION SLIP-JOINT PLIERS
WITH SIDE CUTTER**

No. 370—Length, 7"

These sturdy combination pliers have keen side cutters and a flush head rivet on one side. Drop-forged from selected steel, with knurled handles; faces polished.

**HIGH LEVERAGE
DIAGONAL CUTTING PLIERS**

No. 57—Length, 7"

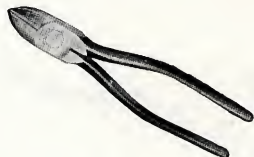
Added leverage for easier and more powerful cutting. They are particularly adapted to heavy duty work. Drop-forged from selected steel, faces polished.

DIAGONAL CUTTING PLIERS

No. 46—Length, 6"

No. 47—Length, 7"

Mechanics and electricians find many uses for these rugged tools. Cutting edges are made for lasting service. Drop-forged from selected steel, faces polished.



END CUTTING NIPPERS

No. 166—Length, 6"

No. 167—Length, 7"

These powerful, easy cutting nippers have carefully sharpened edges. Wide throat provides ample clearance. Drop-forged from selected steel, faces polished.

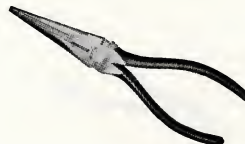


LONG CHAIN NOSE PLIERS WITH SIDE CUTTER

No. 76—Length, 6"

No. 77—Length, 7"

Long, thin nose for close quarters with side-cutting jaws. Ideal for ignition and electrical work, etc. Drop-forged from selected steel, faces polished.





**LONG CHAIN NOSE PLIERS
WITHOUT SIDE CUTTER**

No. 86—Length, 6"

No. 87—Length, 7"

Long, tapered nose is ideal in close quarters encountered in ignition and electrical work. Drop-forged from selected steel, faces polished.



**SHORT CHAIN NOSE PLIERS
WITH SIDE CUTTER**

No. 95—Length, 5"

For fine mechanical work such as done in the jewelry, optical and electronics fields. Jaws have side cutters. Drop-forged from selected steel, faces polished.



**SHORT CHAIN NOSE PLIERS
WITHOUT SIDE CUTTERS**

No. 105—Length, 5"

For fine mechanical work such as done in the jewelry, optical and electronics trades. No cutter in jaws. Drop-forged from selected steel, faces polished.

LONG NEEDLE NOSE PLIERS

No. 116—Length, 6"

The long slender jaws have strong gripping ability. Jaws will not become distorted in normal use. Drop-forged from selected steel, faces polished.



BENT NEEDLE NOSE PLIERS

No. 126—Length, 6"

The long slender jaws are bent to reach around or under obstructions. Jaws have strong gripping ability. Drop-forged from selected steel, faces polished.



DUCK BILL PLIERS

(Flat Jaws)

No. 146—Length, 6"

Used in highly inaccessible places where there is not space for ordinary pliers or fingers. Strong jaws have firm grip. Drop-forged from selected steel, faces polished.





**EXTRA LONG
DUCK BILL PLIERS**

No. 157—Length, 7"

Widely used by textile weavers, telephone maintenance men and punch press operators for inserting and removing work. Drop-forged from selected steel, faces polished.



**LONG FLAT NOSE PLIERS
WITH SIDE CUTTER**

No. 196—Length, 6"

Side cutting jaws have long gripping surfaces. In addition to auto radiator repair work these pliers are widely used in textile mills on certain types of knitting machines. Drop-forged from selected steel, faces polished.



ROUND NOSE PLIERS

No. 134—Length, 4"

No. 136—Length, 6"

Extensively used for flat or round wire forming. Nose and jaws are amply strong for this type of work. Drop-forged from selected steel, faces polished.

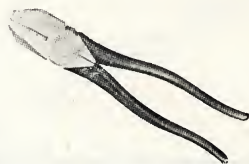
LINEMEN'S SIDE CUTTING PLIERS

No. 206—Length, 6"

No. 207—Length, 7"

No. 208—Length, 8"

These are heavy duty well-balanced pliers to meet the requirements of linemen and electricians. Surface of jaws are deep milled for holding and bending wire. Jaws have powerful cutters. Drop-forged from selected steel, faces polished.

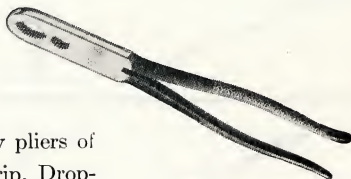


GAS AND BURNER PLIERS

No. 178—Length, 8"

No. 180—Length, 10"

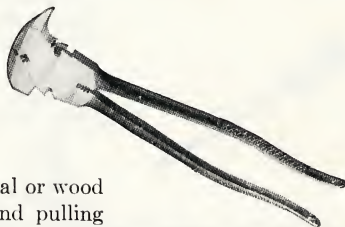
These pliers have larger capacities than ordinary pliers of this type. Handles are designed for comfortable grip. Drop-forged from selected steel, faces polished.



FENCE PLIERS AND STAPLE PULLER

No. 190—Length, 10"

For maintaining and installing wire fence on metal or wood posts. Head has hammer on one jaw, starting and pulling point on the other. Pliers also have two wire cutters, staple puller and wire splicer in nose, wire stretcher and lug lifter. Drop-forged from selected steel.



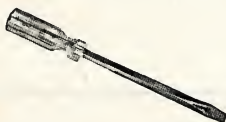
Williams' Regular Screw Drivers all have fluted handles of a tough transparent composition, an insulator of electricity. Tempered Blades are solidly anchored.

Packed 6 in cardboard box, excepting No. 52, 12 per box.



REGULAR — ROUND BLADE

No.	Blade Length	Stock Size	Tip Width
24	4	1/4	1/4
26	6	5/16	5/16
28	8	3/8	3/8
32	12	3/8	3/8



REGULAR — SQUARE BLADE

No.	Blade Length	Stock Size	Tip Width
4	4	1/4	5/16
6	6	5/16	5/16
6B	6	3/8	3/8
8	8	3/8	3/8
12	12	3/8	3/8



ELECTRICIANS — ROUND BLADE

No.	Blade Length	Stock Size	Tip Width
43	3	3/16	3/16
46	6	3/16	3/16
50	10	3/16	3/16



POCKET (With Clip)

No.	Blade Length	Stock Size	Tip Width
52	2-1/4	1/8	1/8



REGULAR STUBBY (Adjusting)

No.	Blade Length	Stock Size	Tip Width
62	1-1/2	1/4	5/16

Williams' Phillips Screw Drivers fit the entire range of Phillips Screws. Round, tempered, selected alloy blades are securely anchored in fluted plastic or wood handles.



PHILLIPS

Number Plastic Handle	Number Wood Handle	Fits Screws No.	Blade Length	Stock Size
TP-1	WP-1	4 and smaller	3	9/64
TP-2	WP-2	5 to 9 incl.	4	1/4
TP-3	WP-3	10 to 16 incl.	6	5/16
TP-4	WP-4	18 and larger	8	3/8



PHILLIPS STUBBY (Adjusting)

No.	Blade Length	Stock Size	Tip Width
TP-62	1-1/2	1/4	5/16

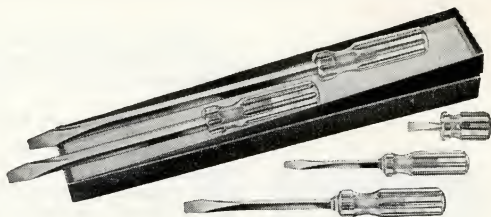
SET No. 1-D

Complete in Cardboard Box

Weight, 2 lbs.

CONTENTS

1 each Nos. 4, 6, 8, 12 and 62
Regular Williams' Screw Drivers
with square blades and comp-
osition handles.



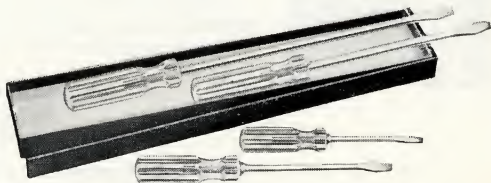
SET No. 2-D

Complete in Cardboard Box

Weight, 1-5/8 lbs.

CONTENTS

1 each Nos. 24, 26, 28 and 32
Regular Williams' Screw Drivers
with round blades and comp-
osition handles.



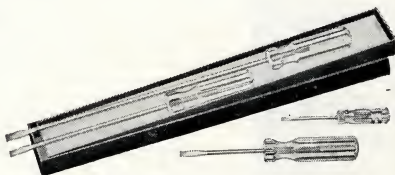
SET No. 3-D

Complete in Cardboard Box

Weight, 1/2 lb.

CONTENTS

1 each Nos. 43, 46, 50 and 52
Williams' Electricians' Screw Drivers
with composition handles.



SET No. TP-5

Weight in Cardboard Box, 1-1/8 lbs.

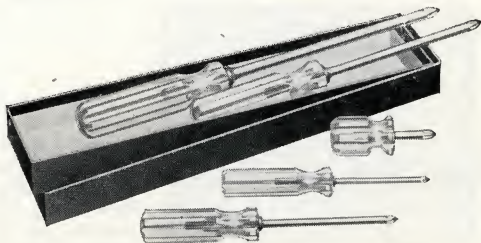
1 each Nos. TP-1, TP-2, TP-3,
TP-4 and TP-62 Phillips Screw
Drivers with plastic handles.

SET No. WP-5

Weight in Cardboard Box, 1-1/8 lbs.

1 each Nos. WP-1, WP-2, WP-3,
WP-4 and WP-62 Phillips Screw
Drivers with hardwood handles.

The above sets cover the
entire range of Phillips Screws.

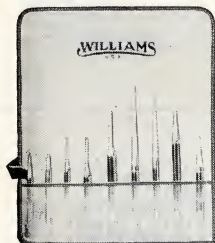


PUNCHES

Williams' Punches are forged from high grade octagon alloy steel, properly hardened and tempered to stand up under the most severe service. Black body; taper and head full polished.

COLD or FLAT PATTERN CHISELS

Williams' Chisels are made from high grade octagon alloy steel noted for its fine cutting qualities and durability; carefully forged, hardened and tempered. Ample hard for work on tempered material, yet soft enough to minimize chipping and to permit resharpening with a file. Body finished in black with full polished bit and head.



RIVET BUSTER

Williams' Rivet Buster is designed especially for cutting off hardened rivet heads. A great time saver when used for this purpose, instead of the ordinary chisel.

PUNCH SET No. P-9

In Leatherette Roll

In Cardboard Box

This handy punch set contains three Pin Punches with 1/8", 3/16" and 1/4" points; two Solid Punches with 3/32" and 1/8" points; two long Taper Punches with 5/32" and 3/16" points; one Prick Punch and One Center Punch, each 5" long.



CHISEL SET No. C-6

In Leatherette Roll

In Cardboard Box

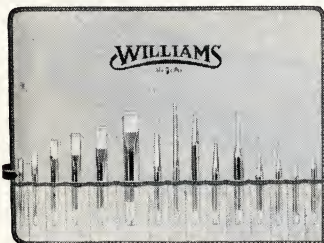
This compact chisel set contains six Cold or Flat Chisels 1/4" to 1-1/8" wide.

PUNCH and CHISEL SET No. PG-15

In Leatherette Roll

In Cardboard Box

This combination set contains a complete assortment of Williams' Punches and Chisels. Set contains six Cold or Flat Chisels 1/4" to 1-1/8" wide; three Pin Punches with 1/8", 3/16" and 1/4" points; two Solid Punches with 3/32" and 1/8" points; two Long Taper Punches with 5/32" and 3/16" points; one Prick Punch and one Center Punch, each 5" long.



PIN PUNCHES

No.	Point Diameter	Stock Size	Length
P-4	1/8	3/8	6
P-6	3/16	1/2	6
P-8	1/4	5/8	8



SOLID PUNCHES

No.	Point Diameter	Stock Size	Length
P-13	3/32	1/2	6
P-14	1/8	1/2	8



LONG TAPER PUNCHES

No.	Point Diameter	Stock Size	Length
P-25	5/32	3/8	9
P-26	3/16	1/2	10



PRICK PUNCH

No.	Point Diameter	Stock Size	Length
P-30		3/8	5



CENTER PUNCH

No.	Point Diameter	Stock Size	Length
P-40		3/8	5



COLD, or FLAT CHISELS

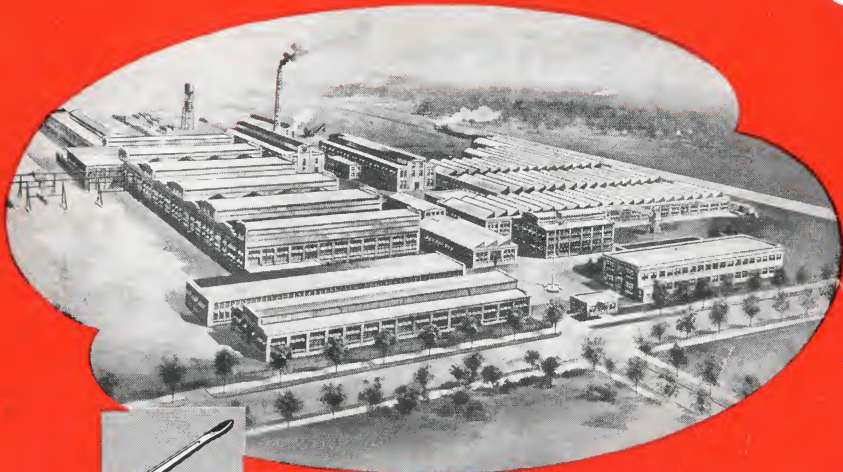
No.	Width of Cut	Stock Size	Length
C-8	1/4	1/4	4-3/4
C-12	3/8	3/8	5-1/2
C-16	1/2	1/2	6
C-20	5/8	5/8	6-1/2
C-24	3/4	3/4	7
C-36	1-1/8	1	8



RIVET BUSTER

No.	Width of Cut	Stock Size	Length
C-422	11/16	3/4	12





**CARBON & ALLOY STEEL WRENCHES IN
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